IBPS PO PRELIM EXAM 2020

(Based on Memory)

Reasoning Ability

DIRECTIONS (Qs. 1-5) : *Study the following information carefully and answer the questions given below :*

Twelve persons stand in two rows with six persons standing in each row. Persons in row 1 are facing north direction and persons in row 2 are facing south direction. Each persons in row 1 faces a person in row 2.

P who stands in row 2 stands second to the right of T. L faces K. Two persons stand between K and A who is at one of the extreme ends. G faces the immediate neighbor of V. Only one person stands between V and L. Three persons stand between F and W. F faces immediate neighbor of P. K is second to the left of W. W does not face V. R stands to immediate right of S. R and S do not face A. Q stands in same row as K.

1. How many persons stand between P and S?
   (a) None (b) One
   (c) Two (d) More than three
   (e) Three

2. if P is related to F, V is related to G then in same manner L is related to _____?
   (a) W (b) Q
   (c) A (d) R
   (e) none of these

3. Who among the following faces the one who stand second to the right of S?
   (a) The one, who sits third right of F.
   (b) The one, who sits immediate left of W.
   (c) K
   (d) Both options c & e are correct.
   (e) The one, who sits immediate right of G.

4. Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?
   (a) S-Q (b) L-G
   (c) A-V (d) T-G
   (e) K-R

5. Which of the following is not true regarding Q?
   (a) Q stands second to the right of G
   (b) Q faces S
   (c) Q faces immediate neighbour of L
   (d) Two students stand between Q and F
   (e) All are true.

DIRECTIONS (Qs. 6-10): *Study the following information carefully and answer the question given below:*

In a certain code language :
"Study is worship" is coded as "cd ef yz"
"Study hard always" is coded as "cd pk uv"
"always do worship" is coded as "uv st yz"
"hard time passes" is coded as "pk ab rf"

6. What is the code of "times passes" as per the given code language ?
   (a) ab uv (b) rt cd
   (c) cannot be determined (d) rt
   (e) rt ef

7. What is the code of "worship" as per the given code language?
   (a) yz (b) ab
   (c) pk (d) rt
   (e) None of these

8. Which among the following words is coded "ef"?
   (a) study (b) is
   (c) hard (d) time
   (e) None of these

9. Which among the following words is coded as "ab" ?
   (a) time (b) passes
   (c) is (d) Can't be determined
   (e) None of these

10. Which of the following words is correctly matched with its code?
    (a) study - ef (b) is-cd
    (c) worship-pk (d) do-ef
    (e) hard-pk

DIRECTIONS (Qs. 11-15) : *Study the following information carefully and answer the questions given below :*

Seven girls A, B, C, D, E, F and G sits consecutive in vertical row. Each girl likes different colours i.e. Blue, Red, Brown, Pink, Black, Sky blue and Yellow. All the information is nor necessarily in the same order.

Two girls sits between B and the one, who likes Red. A sits immediate above the one, who likes Red. B likes Sky blue. More than four girls sits between G and F, who likes Blue. F sits at the bottom most position. A likes Brown and sits below G but not immediately below. D, who likes pink sits below the one who likes Black and above C. G does not like Black.

11. Who among the following girl likes yellow?
    (a) G
    (b) C
    (c) E
    (d) None of these
    (e) The one, who sits just below C

12. Which among the following statement is true regarding E?
    (a) E likes Black
    (b) Two girls sit between E and A
    (c) G sits immediately above E
    (d) More than three girls sit below E
    (e) All are true.

13. Four of the following five belongs to a group in a certain way, find the one which does not belong to that group?
    (a) G-Sky Blue   (b) E-Pink
    (c) D-Blue   (d) B-Brown
    (e) A-Blue

14. How many girls sit between A and the one, who likes yellow?
    (a) Four   (b) Three
    (c) Five   (d) Two
    (e) None of these

15. What is the position of D?
    (a) Second from the topmost position
    (b) Second from the bottommost position
    (c) Fourth from the topmost position
    (d) Both (c) and (d)
    (e) Third from the bottommost position

DIRECTIONS (Qs. 16-19) : *In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.*

16. **Statements :** Some Red are not Yellow. Only a few Blue are Yellow. No Black is Blue
    Conclusions : I. All Black being Yellow is a possibility.
    II. Some Blue can never be Red.
    (a) If only conclusion I follows.
    (b) If only conclusion II follows.
    (c) If either conclusion I or II follows.
    (d) If neither conclusion I nor II follows.
    (e) If both conclusions I and II follow.

17. **Statements :** Only car is Gypsy. Only a few car is scooter. Some Bike is scooter.
    Conclusions : I. All Gypsy can be Bike.
    II. Some Scooter is not Car.
    (a) If only conclusion I follows.
    (b) If only conclusion II follows.
    (c) If either conclusions I or II follow.

    (d) If neither conclusions I nor II follow.
    (e) If both conclusions I and II follow.

18. **Statements :** All bus is bicycle. Only a few bikes are bycycle. Some bikes is not car.
    Conclusions : I. All bus being car is a possibility.
    II. No bus is bikes.
    (a) If only conclusion I follows.
    (b) If only conclusion II follows.
    (c) If either conclusions I or II follow.
    (d) If neither conclusions I nor II follow.
    (e) If both conclusions I and II follow.

19. **Statements :** No men are women. Only a few women are wives. Some wives are sisters.
    Conclusions : I. Some women are sisters.
    II. No women are sisters.
    (a) If only conclusion I follows.
    (b) If only conclusion II follows.
    (c) If either conclusions I or II follow.
    (d) If neither conclusions I nor II follow.
    (e) If both conclusions I and II follow.

DIRECTIONS (Qs. 20-24) : *Study the information carefully and answer the questions given below.*

Six persons are going to the six different hill stations on two different dates i.e. 9th and 24th of three different months. i.e. May, June and July of the same year.

B goes in the month which has an odd number of days and on odd number date. Two persons go in between B and the on who goes to Manali. Only two persons go after the one who goes to Mussoorie. A goes to Nainital on an odd-numbered date. Only one person goes between A and F. As many people who go before F, as many people go after C. More than two persons go in between D and the E who goes to Gulmerg. F does not go to Darjeeling one of the persons visits Shillong.

20. Who among the following goes on 24th May?
    (a) The one who goes to Shillong
    (b) A
    (c) F
    (d) The one who goes to Manali
    (e) None of these

21. The one who goes on 9th July, goes to which city?
    (a) Shillong
    (b) Darjeeling
    (c) Gulmarg
    (d) Manali
    (e) None of these

22. Which of the following statement is not true about E?
    (a) B goes just before E
    (b) E goes to Manali
    (c) Only two persons go between E and F
    (d) More than one person goes between E and D
    (e) Both (b) and (d)

23. Which of the combination is true?
- (a) D-9ᵗʰ May
- (b) B-Shillong
- (c) C-24ᵗʰ June
- (d) D-Mussoorie
- (e) None of these

24. Who among the following persons goes to Mussoorie?
- (a) D
- (b) C
- (c) F
- (d) B
- (e) None of these

DIRECTIONS (Qs. 25-27): *In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer*

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or conclusion II is true.
- (d) If neither conclusion I nor conclusion II is true.
- (e) If both conclusions I and II are true.

25. Statement : $Y > Z \leq A = C; C > K \geq H; P = H$
Conclusions : I. $A > K$ II. $P \leq Z$

26. Statement : $V < Q \leq R; W = R > M; W > P \geq X$
Conclusions : I. $Q \geq X$ II. $P > Q$

27. Statement : $W > S = Q; S \leq N = Q \geq Y$
Conclusions : I. $W \geq O$ II. $Q \leq N$

28. How many such pairs of digits are there in the given number '64847176' each of which has as many digits between them in the number as in the Number series (From both backward and forward)?
- (a) Two
- (b) One
- (c) Four
- (d) Three
- (e) More than four

29. If vowels are arranged in alphabetical increasing order from left to right and then consonants are arranged in alphabetical increasing order from left to right in the given word "PUTALONGSIDE". Then which letter is 5th from the left side in the new word?
- (a) A
- (b) I
- (c) D
- (d) O
- (e) None of these

DIRECTIONS (Qs. 30-34): *Study the following information carefully and answer the questions given below:*

A certain number of persons sit in a linear row. All of them faces in the north direction. Puneet sits third to the right of Shivam. Only three persons sit between Puneet and Vijay. Uday sits third to the left of Vijay. Uday sits fifth from the left end of the row. Rohit sits third to the left of Uday. Only three persons sit between Chetan and Gaurav who is an immediate neighbor of Rohit. Only six persons sits to the right of Chetan. Mohit sits immediate left of Sohit. Only three person sits between Mohit and Himanshu. Sohit does not sit left of Puneet. Himanshu does not sit at the extreme end of the row.

30. How many persons sit in the row?
- (a) Eleven
- (b) Thirteen
- (c) Fourteen
- (d) Ten
- (e) Twelve

31. How many persons sit to the left of Shivam?
- (a) Rohit
- (b) Gaurav
- (c) Himanshu
- (d) Chetan
- (e) None

32. How many persons sit between Uday and Shivam?
- (a) One
- (b) Two
- (c) None
- (d) Three
- (e) More than three

33. Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?
- (a) Shivam
- (b) Uday
- (c) Mohit
- (d) Gaurav
- (e) Chetan

34. Who among the following person sit exactly between Rohit and Vijay?
- (a) Gaurav
- (b) Mohit
- (c) Puneet
- (d) Himanshu
- (e) Uday

35. In a family of three generations there are six family members i.e. A, B, C, D, E and F, F is the Son in law of A, B is the brother in law of D who has no siblings. D is the only child of C. C is married to A. E is niece of B. How A is related to E?
- (a) Maternal Grandfather
- (b) Maternal Grandmother
- (c) Father
- (d) Mother
- (e) Cannot be determined

Quantitative Aptitude

DIRECTIONS (Qs. 36-40) : *The line graph shows the number of people (Men + Women) visited five (M, N, O, P & Q) different Yoga centres and the number of women visited out of total people visited these five Yoga centres. Read the data carefully and answer the questions.*

Yoga Centers
— ■ — (Men + Women)   ⋯ ● ⋯ (Women)
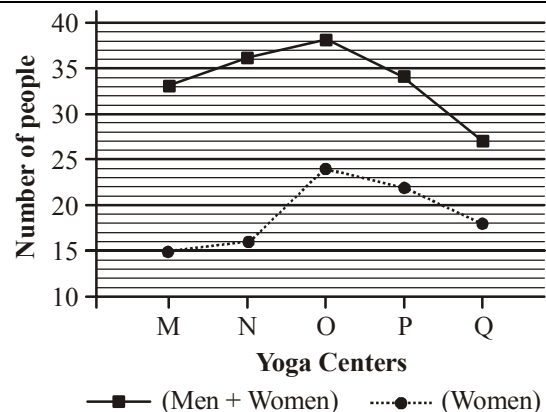
36. Find total number of men visited in Yoga centre M, N & O together?
- (a) 52
- (b) 51
- (c) 53
- (d) 54
- (e) 48

37. If total number of people visited in Yoga centre R are 8 more than total number of people visited in Yoga centre O and P together and out of total people visited in Yoga centre R, $\frac{3}{8}$ th are women, then find number of men visited in park R?
- (a) 50
- (b) 40
- (c) 45
- (d) 84
- (e) 62

38. What percent of women visited in Yoga centre M with respect to the total number of people (Men + Women) visited that Yoga centre (approximately)?
- (a) 41%
- (b) 43%
- (c) 47%
- (d) 49%
- (e) 51%

39. If Yoga centre Q charge ₹ 24 for each people (Men + Women) who visited the Yoga centre, then find the total revenue get by Yoga centre Q?
- (a) ₹1166
- (b) ₹2160
- (c) ₹1248
- (d) ₹2200
- (e) ₹2370

40. Total people (Men + Women) who visited Yoga centre N is what percent more than total people (Men + Women) who visited Yoga centre Q (Approximate)?
- (a) 25%
- (b) 39%
- (c) 43%
- (d) 33%
- (e) None of the above

DIRECTIONS (Qs. 41-45) : *What will come in the place of question mark in following number series:*

41. 9.8, 10.7, 8.9, ?, 8, 12.5
- (a) 10.7
- (b) 11.7
- (c) 10.5
- (d) 10.9
- (e) 11.6

42. 400, 214, 209, ?, 172, 170
- (a) 169
- (b) 173
- (c) 168
- (d) 181
- (e) 170

43. 1, 2, ?, 30, 210, 1890
- (a) 2
- (b) 6
- (c) 4
- (d) 5
- (e) 2.5

44. 8, ?, 4, 6, 12, 30
- (a) 15
- (b) 8
- (c) 4
- (d) 2
- (e) 4

45. 34, 18, ?, 6, 4, 3
- (a) 9
- (b) 10
- (c) 12
- (d) 8
- (e) 6

46. Rohit invested a sum at a certain rate of interest on simple interest and he got 40% more amount after four years. If he invests ₹ 7200 at the same rate of interest on SI, then find the total interest he would get after three years?
- (a) ₹3840
- (b) ₹2160
- (c) ₹2520
- (d) ₹2340
- (e) ₹2260

47. P is 40% more efficient than Q and both together can complete a work in $8\frac{3}{4}$ days. If P work for first four days alone and remaining work complete by Q, then find in how many days total work will be competed?
- (a) $19\frac{2}{5}$ days
- (b) 16 days
- (c) $15\frac{2}{5}$ days
- (d) 19 days
- (e) $18\frac{1}{5}$ days

48. Train 'A' running at speed of 72 km/hr crosses a platform of length same as that of the train in 34 sec. If train B, which is 160 meters long crosses the same platform in 20 sec., then find speed of train B (in km/hr)?
- (a) 54 km/hr
- (b) 90 km/hr
- (c) 84 km/hr
- (d) 72 km/hr
- (e) 108 km/hr

49. Three years ago, ratio of age of Sohit and Mohit was 2 : 3. Average of present age of Sohit, Mohit and Rohit is 22 years. Rohit is 7 years younger than Mohit. What is the present age of Mohit?
- (a) 20 years
- (b) 28 years
- (c) 22 years
- (d) 27 years
- (e) 19 years

50. Ketan deposit 10% of his salary in PF. He saves 40% of the remaining. The ratio of his expense on entertainment and groceries is 4 : 5 of the remaining salary after saving. If his expense on the entertainment was ₹ 2400. Find the monthly salary.
- (a) ₹10,000
- (b) ₹15,000
- (c) ₹30,000
- (d) ₹20,000
- (e) None of these

51. In a mixture of milk and water, the proportion of milk by weight is 70%. If from the 120 gm mixture, 20 gm of mixture is taken out and 10 gm of pure water is added to the mixture then find the ratio of milk and water in the new mixture.
- (a) 5 : 6
- (b) 7 : 4
- (c) 4 : 3
- (d) 4 : 7
- (e) 7 : 6

52. A sphere is melted and molded into solid cylinder. If radius of both solids is equal, then find the ratio of total surface area of sphere to the total surface area of cylinder.
(a) $2:3$
(b) $7:6$
(c) $3:7$
(d) $6:7$
(e) None of these

53. Three partners Rahul, Sonu and Rishab invested their amounts in ratio of $2:5:7$. At the end of 6 months, 'Rahul' added some more amount such that his investment become equals to $\frac{1}{3}$ rd of sum of 'Sonu' and 'Rishab' initial investment. If at the end of the year, Sonu's share in profit is ₹ 320, then find the total profit.
(a) ₹ 1000
(b) ₹ 960
(c) ₹ 920
(d) ₹ 1050
(e) ₹ 1450

54. A shopkeeper marks up price of T.V. 50% above its cost price and gives three successive discounts of $12\frac{1}{2}$%, d% and 40%. If shopkeeper made a loss 37% on T.V. Find the second discount allowed by shop?
(a) 15%
(b) 20%
(c) 25%
(d) $16\frac{2}{3}$%
(e) 17.5%

55. Speed of a boat in still water is 12 kmph and speed of stream in 'y' kmph. If in traveling 230 km upstream boat takes $66\frac{2}{3}$% more time than traveling 230 km downstream, then find the average of the speed of boat and stream.
(a) 3 kmph
(b) $8\frac{1}{2}$ kmph
(c) $7\frac{1}{2}$ kmph
(d) 7 kmph
(e) 6 kmph

DIRECTIONS (Qs. 56-60) : *In the following two equations questions numbered (I) and (II) are given. You have to solve both equations and Givbe answer*
(a) If $p > q$
(b) If $p \geq q$
(c) If $q > p$
(d) If $q \geq p$
(e) If $p = q$ or no relation can be established

56. I. $p^2 - 8p + 15 = 0$
II. $2q^2 - 7q + 5 = 0$

57. I. $2p^2 + p - 28 = 0$
II. $2q^2 - 23q + 56 = 0$

58. I. $2p^2 - 7p - 60 = 0$
II. $3q^2 + 13q + 4 = 0$

59. I. $p^2 - 17p - 84 = 0$
II. $q^2 + 4q - 117 = 0$

60. I. $p^2 = 9^2$
II. $(q - 8)^2 = 9$

DIRECTIONS (Qs. 61-65) : *Given below table shows total three types of food items (P, Q & R) sold by a shop on five days of a week. Table also shows total type P food items sold by shop and percentage of food items Q and food items R sold by shop. Read the data carefully and answer following questions:*

Note: Only three types of food items sold by the shop.

Days	Items P	% of items Q	% of items R
Monday	120	32%	20%
Tuesday	160	48%	12%
Wednesday	210	45%	20%
Thursday	180	56%	20%
Friday	170	22%	10%

61. Total food items Q sold by shop on Monday & Friday together are what percent less than total food items R sold by shop on Wednesday & Thursday together?
(a) 60%
(b) 50%
(c) 20%
(d) 30%
(e) None of these

62. Find the difference between average number of food items Q sold by shop on Tuesday & Thursday and average number of food items P sold by shop on Thursday & Friday?
(a) 130
(b) 132
(c) 131
(d) 136
(e) 134

63. If total food items Q sold by shop on Sunday is 20% more than that sold on Thursday and total items R sold on Sunday is 200% more than that sold on Friday, then find total number of items Q and items R sold by shop on Sunday?
(a) 579
(b) 600
(c) 550
(d) 950
(e) 500

64. Total food items R sold by shop on Wednesday is what percent more than total food items R sold by shop on Monday and Tuesday together?
(a) $26\frac{22}{49}$%
(b) $24\frac{22}{49}$%
(c) $22\frac{22}{49}$%
(d) $21\frac{22}{49}$%
(e) $18\frac{22}{49}$%

65. Find the ratio between total food items sold by shop on Monday to total food items sold by shop on Thursday?
(a) $1:5$
(b) $1:3$
(c) $1:7$
(d) $1:4$
(e) None of these

DIRECTIONS (Qs. 66-70) : *Given data shows total male and female doctors in three hospital in a seminar. Read data carefully and answer the questions:*

In annual seminar of three hospitals, A, B and C some male and female doctors represent their hospitals. Average number of female doctors who represent A and B is 210. Total male doctors in A and B is 810. Number of female doctors is $\frac{2}{3}$rd and $\frac{2}{5}$th of male doctor in A and B respectively. Total female doctor who represent C are 25% more than total female doctor who represent A and total male doctor who represent C are $33\frac{1}{3}\%$ more than total female doctor who represent B.

66. Total doctors who represent A is what percent more than total male doctor who represent B?

    (a) $33\frac{1}{3}\%$ (b) $30\frac{1}{3}\%$

    (c) $27\frac{1}{3}\%$ (d) $29\frac{1}{3}\%$

    (e) None of these

67. 25% of total female doctor and 20% of total male doctor who represent B & C together have MBBS degree, then find total doctor who do not have MBBS degree?
    (a) 812   (b) 712
    (c) 912   (d) 824
    (e) 622

68. Find the ratio between total male doctor who represent B & C together to total female doctor who represent A & C together?
    (a) 23 : 13   (b) 23 : 14
    (c) 23 : 18   (d) 23 : 12
    (e) None of these

69. Find difference between Total male doctor who represent C and total female doctor who represent B?
    (a) 50   (b) 70
    (c) 60   (d) 80
    (e) 90

70. Find average number female in B & C?
    (a) 250   (b) 210
    (c) 260   (d) 240
    (e) None of these

English Language

DIRECTIONS (Qs. 71-77): *Read the passage and answer the questions that follow:*

Humans are making Earth a broken and increasingly unliveable planet through climate change, biodiversity loss and pollution. So the world must make dramatic changes to society, economics and daily life, a new United Nations report says. Unlike past UN reports that focused on one issue and avoided telling leaders actions to take, Thursday's report combines three intertwined environment crises and tells the world what's got to change. It calls for changing what governments tax, how nations value economic output, how power is generated, the way people get around, fish and farm, as well as what they eat.

Without nature's help, we will not thrive or even survive, Secretary-General Antonio Guterres said. For too long, we have been waging a senseless and suicidal war on nature. The result is three interlinked environmental crises.

Our children and their children will inherit a world of extreme weather events, sea level rise, a drastic loss of plants and animals, food and water insecurity and increasing likelihood of future pandemics, said report lead author Sir Robert Watson, who has chaired past UN science reports on climate change and biodiversity loss. The emergency is in fact more profound than we thought only a few years ago, said Watson, who has been a top level scientist in the U.S. and British governments The report highlighted what report co-author Rachel Warren of the University of East Anglia called a **litany** of frightening statistics that hasn't really been brought together Earth is on the way to an additional 3.5 degrees warming from now (1.9 degrees Celsius), far more than the international agreed upon goals in the Paris accord. About 9 million people a year die from pollution. About 1 million of Earth's 8 million species of plants and animals are threatened with extinction.

Up to 400 million tons of heavy metals, toxic sludge and other industrial waste are dumped into the world's waters every year. More than 3 billion people are affected by land degradation, and only 15% of Earth's wetlands remain intact. About 60% of fish stocks are fished at the maximum levels. There are more than 400 oxygen-depleted dead zones and marine plastics pollution has increased tenfold since 1980. In the end it will hit us, said biologist Thomas Lovejoy, who was a scientific advisor to the report. It's not what's happening to elephants. It's not what's happening to climate or sea level rise. It's all going to impact us. The planet's problems are so interconnected that they must be worked on together to be fixed right, Warren said. And many of the solutions, such as eliminating fossil fuel use, combat multiple problems including climate change and pollution, she said. The report makes it clear that there is no time for linear thinking or tackling problems one at a time, said University of Michigan environment professor Rosina Bierbaum, who wasn't part of the work. In another break, this report gives specific solutions that it says must be taken. This report uses the word must 56 times and should 37 times. There should be 100 more because action is so crucial, said former U.N. climate chief Christiana Figueres, who wasn't part of the report. Time has totally ran out. That's why the word must' is in there, Figueres said. The report calls for an end to fossil fuel use and to 5 trillion in government subsidies for fossil fuel and other industries that degrade the environment. It says governments should not tax labor or production, but use of resources that damages nature.

Scientists should inform leaders about environmental risks but their endorsement of specific public policies threatens to undermine the credibility of their science, said former Republican

Rep. Bob Inglis, who founded the free market climate think tank RepublicEn.org.

71. What are the interlinked environmental crises the author of the passage talks about?
   (i) Our future generations and their future will face extreme weather events
   (ii) Sea levels will rise with extinction of plants and animals drastically
   (iii) There will be likelihood of pandemics in the future
   (iv) Occurrence of food and water insecurity
   (a) i, ii, and iii   (b) i, iv, and ii
   (c) ii, iii, and iv   (d) i, iii, and iv
   (e) All of the above

72. According to the report, what are the changes in the world that are the need of the hour?
   (a) The government should change the things it's currently taxing
   (b) There should be change in how economic output is valued
   (c) The measures of power generation should be looked upon
   (d) The people should change the way of farming, fishing and what's included in their eating
   (e) All of the above

73. In what context, the author says that the emergency is more profound than we thought?
   (a) The statistics of the global warming are not up to the mark and need reassessment
   (b) Lack of will power to achieve international goals agreed in the Paris accord
   (c) The Earth will be increasing 3.5 degrees warming from 1.9 degree Celsius
   (d) People dying from pollution and extinction of animals and plants will generate threats for our future generations
   (e) Water pollution is increasing at a pace that was not expected by the scientists

74. What are the happenings that the author fears will eventually impact us?
   (a) Toxic materials dumped in world waters and land-degradation effect on people
   (b) 60% of fish stocks are fished and tenfold increase in marine plastic pollution tenfold
   (c) Ozone depleted zones and decrease in intact wetlands of the Earth
   (d) All of the above
   (e) None of these

75. What are the suggestions of the report to combat planet's problems?
   (a) Putting an end to the usage of fossil fuel and industries damaging the environment
   (b) Instead of taxing labour or production, usage of resources that degrade nature should be taxed

   (c) There is no time left that's why governments should come together to combat climate change and pollution
   (d) Both (a) and (b)
   (e) The specific solutions given by the report should be taken seriously by all the countries

76. What risks are associated with scientists informing leaders about the environmental risks?
   (a) The endorsement of public policies will threaten the course of their scientific inventions
   (b) It will undermine the credibility of their science
   (c) Information of environmental risks will endanger countries' economic progress
   (d) It will have effect on geo-political relations among various countries
   (e) All of the above

77. Which of the following is most similar in meaning with **LITANY** as highlighted in the passage?
   (a) Sanctimonious   (b) Criticism
   (c) Recitation   (d) Supercilious
   (e) Paranoia

DIRECTIONS (Qs. 78-82): *In the following questions, some part of the sentence is underlined. Which of the options given below the sentence should replace the part highlighted to make the sentence grammatically correct? If the sentence is correct as it is given then choose option (e) 'No Correction required' as the answer.*

78. Experience without learning **is best than** learning without experience.
   (a) is best then   (b) is good than
   (c) is better than   (d) is better then
   (e) No correction required

79. Speaking to the supporters **which has gather** outside, she urged all true supporters to come together and work for the party.
   (a) Which gathered there   (b) Which had gather
   (c) Who have gather   (d) Who had gathered
   (e) No correction required

80. The national highway, the only road **in connection with** the Union Territory of Ladakh with Kadhmir will reopen for regular traffic from February 28.
   (a) Connecting with   (b) Connecting
   (c) In connection to   (d) Being connected with
   (e) No correction required

81. Temporary rules covering official controls in Europe **since from** the coronavirus pandemic have been extended for the fourth time.
   (a) On account   (b) Because in
   (c) Because of   (d) Owing as
   (e) No correction required

82. **Besides criticism of** environmental and other groups, CPUC passed a decision aimed at preventing rolling blackouts from affecting the grid this summer.

(a) Without criticism of   (b) Unless criticism from
(c) Except criticism from   (d) Despite criticism from
(e) No correction required

DIRECTIONS (Qs. 83-87): *There are two different sentences with a blank space in each question. Choose the word from the given options which fits into both the blanks appropriately adding a proper and logical meaning to the sentences.*

83. (I) We are given pain relief in our society for whatever _____comes our way.
    (II) Seeing a counselor for depression is not something to be ashamed of any more than seeing a physician for a physical _____.
    (a) Difficulty   (b) Situation
    (c) Contention   (d) Warrant
    (e) Ailment

84. (I) As Britain knows, all predominant power seems for a time _____, but in fact it is transient.
    (II) Another reason people do not take out income protection insurance is because they see themselves as being _____.
    (a) Mortal   (b) Extravagant
    (c) Invincible   (d) Venerate
    (e) Brook

85. (I) The air quality over Delhi, which is currently bracketed under 'Very Poor' category, is expected to _____ further.
    (II) Katie's hearing began to _____ in 1997 and she had to rely on hearing aids and lip-reading.
    (a) Deteriorate   (b) Intrigue
    (c) Dispatch   (d) Impel
    (e) Vacate

86. (I) The English ambassador to Holland even threatened to _____any merchants who traded with the new company.
    (II) With the lifting of the said _____ private sector banks can now carry out government-related banking transactions.
    (a) Beseech   (b) Embargo
    (c) Entreat   (d) Propriety
    (e) Consecrate

87. (I) Despite the national restrictions, the last 12 months have seen a number of creative responses to our collective _____.
    (II) Researchers found that when jail _____ rates among counties increased, citizens were more likely to face adverse health issues.
    (a) Objectives   (b) Incarceration
    (c) Restrained   (d) Manifestation
    (e) Imposing

DIRECTIONS (Qs. 88-92): *Rearrange the paragraph and answer the following questions.*

(A) The law, which is based on the realisation of a severe power imbalance between giant Internet platforms and news media, marks a rare intervention by any government in platform-publisher relationships.

(B) A new law in Australia that seeks to make technology platforms such as Google and Facebook pay news publishers for use of their content presents governments in democracies with an idea worth considering, if not emulating.

(C) It seeks to level the playing field by mandating that platforms negotiate with publishers of news regarding payment for their content.

(D) The power imbalance is not just an Australian reality, though and it is everywhere.

(E) However, the platforms are not used to paying for such content.

(F) This imbalance has only intensified over the past decade or so, during which time platforms have gained so much power that they have become de facto gateways to the net.

88. What is the THIRD sentence after rearrangement?
    (a) F   (b) D
    (c) E   (d) C
    (e) B

89. What is the SECOND sentence after rearrangement?
    (a) F   (b) A
    (c) C   (d) E
    (e) D

90. What is the FIFTH sentence after rearrangement?
    (a) D   (b) F
    (c) C   (d) A
    (e) B

91. What is the FOURTH sentence after rearrangement?
    (a) E   (b) D
    (c) C   (d) F
    (e) B

92. What is the SIXTH sentence after rearrangement?
    (a) D   (b) E
    (c) B   (d) C
    (e) F

DIRECTIONS (Qs. 93-95): *In the following question a sentence with four highlighted words is given. Choose which of the following pairs should be interchanged to make the sentence meaningful. If the sentence is correct as it is, your answer is (e).*

93. With France **licensing (A)** having given shape to new European Union **copyright (B)** rules, thereby forcing Google to negotiate **already (C)** deals with its publishers, the **heat (D)** is on the Internet platforms.
    (a) A-B   (b) C-D
    (c) A-C   (d) A-D
    (e) No change required

94. Despite **across (A)**, India still managed to **assist (B)** its partners from the Global South in key **areas (C)** of science and technology such as health **limitations (D)** Asia and Africa.

(a) B-C   (b) A-D
(c) C-D   (d) A-C
(e) No change required

95. Parliamentary democracy **thrives (A)** not just through adhering to the **precedents (B)** of the law but also by **building (C)** and respecting healthy **letter (D)** and conventions.

(a) B-C   (b) A-C
(c) B-D   (d) A-B
(e) No change required

DIRECTIONS (Qs. 96-100): *In the following questions two columns are given containing three Sentences/phrases each. In first column, sentences/phrases are A, B and C and in the second column the sentences/phrases are D, E and F. A sentence/ phrase from the first column may or may not connect with another sentence/phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options, four of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. If none of the options given forms a correct sentence after combination, mark (e), i.e. "None of these" as your answer.*

96.

	Column (I)		Column (II)
(A)	The vaccines will be	(D)	the pressure can overpower the body's ability
(B)	The most recent statement concerning	(E)	student who keeps me up to date
(C)	One of my neighbours is a friendly	(F)	free in government hospitals

(a) A-E, B-F   (b) B-D
(c) A-F, C-E   (d) B-F, A-F, C-D
(e) None of these

97.

	Column (I)		Column (II)
(A)	There is a debate going on about an open	(D)	of the prerequisites of justice
(B)	A fair investigation is one	(E)	alongside the insects and cut flowers
(C)	The skin can sometimes be closed	(F)	ballot instead of a secret ballot in the Senate polls

(a) C-D, A-E   (b) A-F, B-D
(c) A-E, B-D   (d) C-D
(e) None of these

98.

	Column (I)		Column (II)
(A)	Environmentalists became	(D)	made their relationship legal at last
(B)	The Centre has so far remained	(E)	silent about the issue of choice of vaccines
(C)	One claimed he could imagine	(F)	the first, official anti-nationals

(a) B-D, A-F   (b) A-E, C-D
(c) C-E   (d) A-F, B-E
(e) None of these

99.

	Column (I)		Column (II)
(A)	Embargo lifted on the grant	(D)	reasons for trading not migrating to the disaster recovery site
(B)	The men are pictured together	(E)	of government business to private banks
(C)	Sebi said that it has asked the bourse to explain the	(F)	over a lifetime were hard to shake off

(a) B-D, C-E   (b) A-F, B-D
(c) A-F   (d) A-E, C-D
(e) None of these

100.

	Column (I)		Column (II)
(A)	Opening up of the government business will	(D)	she finds it useful to talk while she runs
(B)	One big difference between her month	(E)	the improvement in asset quality for Indian banks
(C)	The pandemic-induced downcycle has delayed	(F)	allow more private banks to participate

(a) A-F, C-D   (b) C-E, B-F
(c) A-F, C-E   (d) A-E, B-F, C-D
(e) None of these

Hints & Explanations

Solutions (1-5):
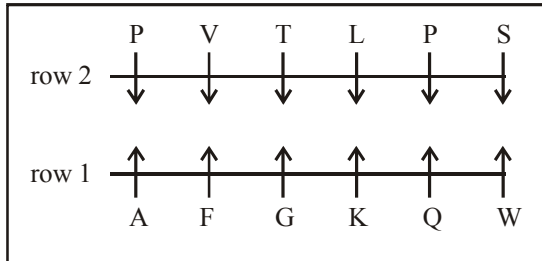
1. **(d)** **2.** **(b)** **3.** **(d)** **4.** **(d)** **5.** **(b)**

Solutions (6-10):

WORDS	CODES
Study	cd
is	ef
worship	yz
hard	pk
always	uv
do	st
Time/passes	rt

6. **(d)** **7.** **(a)** **8.** **(b)** **9.** **(d)** **10.** **(e)**

Solutions (11-15):

Persons	Fruits
G	Yellow
E	Black
B	Sky blue
D	Pink
A	Brown
C	Red
F	Blue

11. **(a)** **12.** **(e)** **13.** **(c)** **14.** **(b)** **15.** **(c)**

Solutions (16-19):

16. **(a)**

17. **(d)**

18. **(a)**

19. **(c)**

Solutions (20-24):

Date Month	9th	24th
May	A (Nainital)	D (Manali)
June	F (Shillong)	C (Mussorrie)
July	B (Darjeeling)	E (Gulmarg)

20. **(d)** **21.** **(b)** **22.** **(b)** **23.** **(c)** **24.** **(b)**

Solutions (25-27) :

25. **(a)**   I. $A > K$ (True)   II. $P \leq Z$ (False)

26. **(d)**   I. $Q \geq X$ (False)   II. $P > Q$ (False)

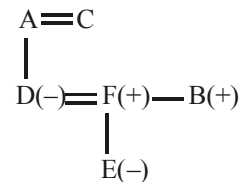**27.** **(a)**   I. $W > O$ (False)   II. $Q \leq N$ (True)

28. **(e)**
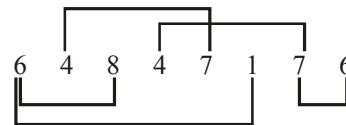
29. **(d)**   P U T A L O N G S I D E
                 A E I O U D G L N P S T

Solutions (30-34) :
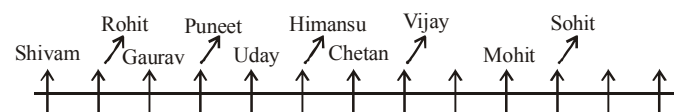
30. **(b)** **31.** **(e)** **32.** **(d)** **33.** **(c)** **34.** **(e)** **35.** **(e)**

36. **(b)**   Required sum
$$= (32 - 15) + (36 - 16) + (38 - 24)$$
$$= 17 + 20 + 14 = 51$$

37. **(a)**   Total people visited in Yoga centre R
$$= (38 + 34) + 8 = 80$$

So, number of men visited in Yoga centre R

$$= 80 \times \frac{5}{8} = 50$$

38. (c) Required percentage $= \frac{15}{32} \times 100$

$$= 46.875 \approx 47\%$$

39. (b) Required revenue $= 80 \times 27 = ₹2160$

40. (d) Required percentage $= \frac{36 - 27}{27} \times 100$

$$= \frac{9}{27} \times 100 = 33\frac{1}{3}\% \approx 33\%$$

41. (e) Pattern of series :
$9.8 + 0.9 = 10.7$
$10.7 - 1.8 = 8.9$
$8.9 + 2.7 = \textbf{11.6}$
$11.6 - 3.6 = 8$
$8 + 4.5 = 12.5$

42. (d) Pattern of series :
$400 - (5^3 + 1) = 274$
$274 - (4^3 + 1) = 209$
$209 - (3^3 + 1) = \textbf{181}$
$181 - (2^3 + 1) = 172$
$172 - (1^3 + 1) = \textbf{170}$

43. (b) Pattern of series :
$2 \times 1 = 2$
$? = 2 \times 3 = \textbf{6}$
$6 \times 5 = 30$
$30 \times 7 = 210$
$210 \times 9 = 1890$

44. (c) Pattern of series :
$8 \times 0.5 = \textbf{4}$
$4 \times 1 = 4$
$4 \times 1.5 = 6$
$6 \times 2 = 12$
$12 \times 2.5 = 30$

45. (b) Pattern of series :
$34 \div 2 + 1 = 18$
$18 \div 2 + 1 = \textbf{10}$
$10 \div 2 + 1 = 6$
$6 \div 2 + 1 = 4$
$4 \div 2 + 1 = 3$

46. (b) Let sum invested by man $= 100x$

And amount he got $= 100x \times \frac{140}{100} = 140x$

Let rate of interest be 'r' % per annum.
According to the question,

$$100x \times r \times \frac{4}{100} = 140x - 100x$$

$r = 10$

Required interest $= 7200 \times 10 \times \frac{3}{100} = ₹2160$

47. (a) Let efficiency of Q $= 5x$ unit/day

So, efficiency of P $= 5x \times \frac{140}{100} = 7x$ unit/day

Total work $= (7x + 5x) \times \frac{35}{4} = 105$ units

Total work done by P in 4 days $= 7x \times 4$
$= 28x$ unit

Total required days $= 4 + \frac{105x - 28x}{5x}$

$$= 4 + \frac{77x}{5x} = 19\frac{2}{5} \text{ days}$$

48. (b) Let length of train 'A' and platform each be 'L' meters.
According to the question,

$$\frac{L + L}{34} = 72 \times \frac{5}{18}$$

$L = 340$ meters
Let speed of train B be 's' km/h

$$\frac{340 + 160}{20} = s \times \frac{5}{18}$$

$s = 90$ km/h

49. (d) Let present age of Sohit, Mohit and Rohit be x, y and z years respectively.
According to the question,

$$\frac{x - 3}{y - 3} = \frac{2}{3}$$

$3x - 2y = 3$ ... (i)

$\Rightarrow \quad x + y + z = 22 \times 3 = 66$ ... (ii)
$\Rightarrow \quad z = y - 7$ ... (iii)
From equations (i), (ii) and (iii),
$\quad x = 19, y = 27, z = 20$
So, present age of Mohit is 27 years.

50. (a) Let monthly salary $= ₹ 100x$
According to the question,

$$100x \times \frac{90}{100} \times \frac{60}{100} = 54x$$

Let total expense on entertainment and groceries
$= 4y + 5y = 9y$
So, $9y = 54x \quad \Rightarrow y = 6x$
Given, $4y = 2400$
So, $y = 600$
Now, $x = 100$
$\therefore$ Monthly salary of the man $= 100x = ₹ 10,000$

51. (b) Ratio of milk and water in mixture
= 70 : 30 = 7 : 3
Quantity of milk left in mixture after 20 gm of mixture

is taken out = $100 \times \dfrac{7}{10} = 70$ gm

Quantity of water left = $100 \times \dfrac{3}{10} = 30$ gm

∴ Required ratio = $\dfrac{70}{30+10} = \dfrac{70}{40} = 7 : 4$

52. (d) Let radius of sphere and cylinder is 'r'.

So, volume of sphere = $\dfrac{4}{3}\pi r^3$

Volume of cylinder = Volume of sphere

$\dfrac{4}{3}\pi r^3 = \pi r^2 h$

⇒ $h = \dfrac{4}{3}r$

TSA of sphere = $4\pi r^2$
TSA of cylinder = $2\pi r\,(r+h)$

$= 2\pi r \left(r + \dfrac{4}{3}r \right) = \dfrac{14}{3}\pi r^2$

Required ratio = $\dfrac{4\pi r^2}{\dfrac{14}{3}\pi r^2} = \dfrac{6}{7} = 6 : 7$

53. (b) Let investment of Rahul, Sonu and Rishab be $2x$, $5x$ and $7x$ respectively.
Let extra amount added by 'Rahul' after six months be ₹ y.
According to the question,

$2x + y = \dfrac{1}{3}[5x + 7x]$

$2x + y = 4x$
$y = 2x$
Ratio of profit share
Rahul : Sonu : Rishab
$= 2x \times 6 + (2x + 2x) \times 6 : 5x \times 12 : 7x \times 12$
$= 3x : 5x : 7x$
Sonu's share of profit = ₹ 320
⇒ $5 \rightarrow 320$
⇒ $1 \rightarrow 64$
⇒ $(3 + 5 + 7) = 15 \rightarrow 15 \times 64 = 960$
Total profit = ₹ 960

54. (b) Let C.P. of LED = ₹ $100x$
M.P. of LED = ₹ $150x$
If shopkeeper made a loss of 37%, then

S.P. of the T.V. = $100x - 37x = ₹63x$
According to the question,

$150x \times \dfrac{7}{8} \times d \times \dfrac{3}{5} = 63x$

⇒ $d = \dfrac{4}{5}$

⇒ $d = 80\%$ $\qquad \left(\because \dfrac{4}{5} = 80\% \right)$

So, second discount allowed by shop
$= 100 - 80 = 20\%$

55. (c) Speed of boat in still water = 12 kmph
Speed of stream = y kmph
According to the question,

$\dfrac{230}{12 - y} = \left(100 + 66\dfrac{2}{3} \right)\%$ of $\dfrac{230}{12 + y}$

⇒ $\dfrac{230}{12 - y} = \left(1 + \dfrac{2}{3} \right) \times \dfrac{230}{12 + y}$

⇒ $\dfrac{230}{12 - y} = \dfrac{5}{3} \times \dfrac{230}{12 + y}$

⇒ $(12 + y) \times 3 = (12 - y) \times 5$
⇒ $y = 3$

So, required average = $\dfrac{12 + 3}{2} = 7\dfrac{1}{2}$ kmph

56. (a) I. $p^2 - 8p + 15 = 0$
$p^2 - 3p - 5p + 15 = 0$
$(p - 3)(p - 5) = 0$
$p = 3, 5$
II. $2q^2 - 7q + 5 = 0$
$2q^2 - 2q - 5q + 5 = 0$
$(q - 1)(2q - 5) = 0$

$q = 1, \dfrac{5}{2}$

$p > q$

57. (d) I. $2p^2 + p - 28 = 0$
$2p^2 + 8p - 7p - 28 = 0$
$2p(p + 4) - 7(p + 4) = 0$
$(2p - 7)(p + 4) = 0$

$p = -4, \dfrac{7}{2}$

II. $2q^2 - 23q + 56 = 0$
$2q^2 - 16q - 7q + 56 = 0$
$2q(q - 8) - 7(q - 8) = 0$
$(2q - 7)(q - 8) = 0$

$q = \dfrac{7}{2}, 8$

$q \geq p$

58. (e) I. $2p^2 - 7p - 60 = 0$
$2p^2 - 15p + 8p - 60 = 0$
$p(2p - 15) + 4(2p - 15) = 0$
$(p + 4)(2p - 15) = 0$

$$p = -4, \frac{15}{2}$$

II. $3q^2 + 13q + 4 = 0$
$3q^2 + 12q + q + 4 = 0$
$3q(q + 4) + 1(q + 4) = 0$
$(3q + 1)(q + 4) = 0$

$$q = -\frac{1}{3}, -4$$

No relation between p and q.

59. (e) I. $p^2 - 17p - 84 = 0$
$p^2 + 4p - 21p - 84 = 0$
$(p + 4)(p - 21) = 0$
$p = -4, 21$

II. $q^2 + 4q - 117 = 0$
$q^2 - 9q + 13q - 117 = 0$
$(q - 9)(q + 13) = 0$
$q = 9, -13$

No relation between p and q.

60. (c) I. $p^2 = 9^2$
$p = 9$

I. $(q - 8)^2 = 3^2$
$q = 11$

$q > p$

61. (b) Total items Q sold by shop on Monday and Friday

together $= \dfrac{120}{48} \times 32 + \dfrac{170}{68} \times 22$

$= 80 + 55 = 135$

Total items R sold by shop in Wednesday and

Thursday together $= \dfrac{210}{35} \times 20 + \dfrac{180}{24} \times 20$

$= 120 + 150 = 270$

Required percentage $= \dfrac{270 - 135}{270} \times 100$

$= \dfrac{135}{270} \times 100 = 50\%$

62. (c) Average number of food items Q sold by shop on

Tuesday and Thursday $= \dfrac{\dfrac{160}{40} \times 48 + \dfrac{180}{24} \times 56}{2}$

$= \dfrac{192 + 420}{2} = 306$

Average number of food items P sold by shop on

Thursday and Friday $= \dfrac{180 + 170}{2} = \dfrac{350}{2} = 175$

Required difference $= 306 - 175 = 131$

63. (a) Total food items Q sold by shop on Sunday

$= \dfrac{180}{24} \times 56 \times \dfrac{120}{100} = 504$

Total food items R sold by shop on Sunday

$= \dfrac{170}{68} \times 10 \times \dfrac{300}{100} = 75$

Total food items Q and food items R sold by shop on
Sunday $= 504 + 75 = 579$

64. (c) Total food items R sold on Wednesday

$= \dfrac{210}{35} \times 20 = 120$

Total items R sold on Monday and Tuesday together

$= \dfrac{120}{48} \times 20 + \dfrac{160}{40} \times 12$

$= 50 + 48 = 98$

Required percentage $= \dfrac{120 - 98}{98} \times 100$

$= \dfrac{22}{98} \times 100 = 22\dfrac{22}{49}\%$

65. (b) Required ratio $= \dfrac{\dfrac{120}{48} \times 100}{\dfrac{180}{24} \times 100} = \dfrac{250}{750} = 1 : 3$

Solutions (66-70) :

Total number of female doctor who represent A and B
$= 210 \times 2 = 420$
Let, number of male doctor who represent A $= a$
And, number of male doctor who represent B $= b$
According to the question,

$a + b = 810$ ... (i)

$\dfrac{2}{3}a + \dfrac{2}{5}b = 420$ ... (ii)

On solving equations (i) and (ii),
$a = 360, b = 450$

Number of female doctor who represent A $= \dfrac{2}{3} \times 360 = 240$

Number of female doctor who represent B $= \dfrac{2}{5} \times 450 = 180$

Total female doctor who represent C $= 240 \times \dfrac{125}{100} = 300$

Total male doctor who represent C $= 180 \times \dfrac{4}{3} = 240$

Hospitals	Male	Female
A	360	240
B	450	180
C	240	300

66. **(a)** Total doctor who represent A $= 360 + 240 = 600$

Required percentage $= \dfrac{600 - 450}{450} \times 100 = 33\dfrac{1}{3}\%$

67. **(c)** Total doctor who represent B and C who do not have MBBS degree

$= (450 + 240) \times \dfrac{80}{100} + (180 + 300) \times \dfrac{75}{100}$

$= 552 + 360 = 912$

68. **(c)** Required ratio $= \dfrac{450 + 240}{240 + 300} = 23 : 18$

69. **(c)** Required difference $= 240 - 180 = 60$

70. **(d)** Required average $= \dfrac{180 + 300}{2} = 240$

71. **(e)** Refer to the second paragraph, the hint can be drawn from the lines, Our children and their children will inherit a world of extreme weather events, sea level rise, a drastic loss of plants and animals, food and water insecurity and increasing likelihood of future pandemics, said report lead author Sir Robert Watson, who has chaired past UN science reports on climate change and biodiversity loss.

Hence, **option (e)** is the right answer choice.

72. **(e)** Refer to the first paragraph, the hint can be drawn from the lines, Unlike past UN reports that focused on one issue and avoided telling leaders actions to take, Thursday's report combines three intertwined environment crises and tells the world what's got to change. It calls for changing what governments tax, how nations value economic output, how power is generated, the way people get around, fish and farm, as well as what they eat.

Hence, **option (e)** is the right answer choice.

73. **(c)** Refer to the second paragraph, the hint can be drawn from the lines, The report highlighted what report co-author Rachel Warren of the University of East Anglia called a litany of frightening statistics that hasn't really been brought together Earth is on the way to an additional 3.5 degrees warming from now (1.9 degrees Celsius), far more than the international agreed upon goals in the Paris accord.

Hence, **option (c)** is the right answer choice.

74. **(d)** Refer to the third paragraph, the hint can be drawn from the lines, Up to 400 million tons of heavy metals, toxic sludge and other industrial waste are dumped into the world's waters every year. More than 3 billion people are affected by land degradation, and only 15% of Earth's wetlands remain intact. About 60% of fish stocks are fished at the maximum levels. There are more than 400 oxygen-depleted dead zones and marine plastics pollution has increased tenfold since 1980. In the end it will hit us, said biologist Thomas Lovejoy, who was a scientific advisor to the report. It's not what's happening to elephants. It's not what's happening to climate or sea level rise. It's all going to impact us.

Hence, **option (d)** is the right answer choice.

75. **(d)** Refer to the fourth paragraph, the hint can be drawn from the lines, The report calls for an end to fossil fuel use and to 5 trillion in government subsidies for fossil fuel and other industries that degrade the environment. It says governments should not tax labor or production, but use of resources that damages nature.

Hence, **option (d)** is the right answer choice.

76. **(b)** Refer to the last paragraph, the hint can be drawn from the lines,

Scientists should inform leaders about environmental risks but their endorsement of specific public policies threatens to undermine the credibility of their science, said former Republican Rep. Bob Inglis, who founded the free market climate think tank RepublicEn.org.

Hence, **option (b)** is the right answer choice.

77. **(c)** **Litany:** a tedious recital or repetitive series.

Recitation: the repetition of a list of facts

Sanctimonious: Making a show of being morally superior to other people.

Self-righteous, Pious, Holier-than-thou

Criticism: The expression of disapproval of someone or something on the basis of perceived faults or mistakes.

Censure, Reproval, Condemnation, Denunciation, Disapproval, Critique, Examen

Supercilious: Behaving or looking as though one thinks one is superior to others.

Arrogant, Haughty, Conceited, Disdainful, Overbearing, Pompous

Paranoia: An extreme and unreasonable feeling that other people do not like you or are going to harm or criticize you.

Hence, **option (c)** is the right answer choice.

78. **(c)** There is a comparison between two aspects, the highlighted part must be replaced with 'is better than' to make it a grammatically and contextually correct sentence.

Hence, the **option (b)** is the correct answer choice.

79. (d) In order to match the tense (past tense) of the given sentence, the highlighted part must be replaced with **'who had gathered'** to make the sentence grammatically and contextually correct.

Hence, **option (d)** is the right answer choice.

80. (b) **'In connection with'** means **'having to do with a particular thing'.** Here, **'connecting'** means **'to connect with something'.** The highlighted part will be replaced with **'connecting'** to make the sentence grammatically and contextually correct.

Hence, **option (b)** is the right answer choice.

81. (c) The highlighted part should be replaced with the preposition 'because of' to make the sentence grammatically and contextually correct.

Hence, **option (c)** is the right answer choice.

82. (d) The highlighted part should be replaced with **'despite criticism from'** to make the sentence grammatically and contextually correct.

Hence, **option (d)** is the right answer choice.

83. (e) **"Ailment"** fits into both the blanks appropriately adding a proper and logical meaning to the sentences. Hence, **option (e)** is the right answer choice.

Difficulty: the state or condition of being difficult.

Situation: a set of circumstances in which one finds oneself; a state of affairs.

Contention: heated disagreement.

Warrant: a document that entitles the holder to receive goods, money, or services.

Ailment: an illness, typically a minor one.

84. (c) **'Invincible'** fits into both the blanks appropriately adding a proper and logical meaning to the sentences. Hence, **option (c)** is the right answer choice.

Mortal: (of a living human being, often in contrast to a divine being) subject to death.

Extravagant: lacking restraint in spending money or using resources.

Invincible: too powerful to be defeated or overcome.

Venerate: regard with great respect; revere.

Brook: a small stream.

85. (a) **'Deteriorate'** fits into both the blanks appropriately adding a proper and logical meaning to the sentences. Hence, **option (a)** is the right answer choice.

Deteriorate: become progressively worse.

Intrigue: arouse the curiosity or interest of; fascinate.

Dispatch: send off to a destination or for a purpose.

Impel: drive, force, or urge (someone) to do something.

Vacate: leave (a place that one previously occupied).

86. (b) **'Embargo'** fits into both the blanks appropriately adding a proper and logical meaning to the sentences. Hence, **option (b)** is the right answer choice.

Beseech: ask (someone) urgently and fervently to do something; implore; entreat.

Embargo: an official ban on trade or other commercial activity with a particular country. Entreat: ask someone earnestly or anxiously to do something.

Propriety: conformity to conventionally accepted standards of behaviour or morals.

Consecrate: make or declare (something, typically a church) sacred; dedicate formally to a religious purpose.

87. (b) **'Incarceration'** fits into both the blanks appropriately adding a proper and logical meaning to the sentences. Hence, **option (b)** is the right answer choice.

Objectives: a thing aimed at or sought; a goal.

Incarceration: the state of being confined in prison; imprisonment.

Restrained: characterized by reserve or moderation; unemotional or dispassionate. Manifestation: an event, action, or object that clearly shows or embodies something abstract or theoretical.

Imposing: grand and impressive in appearance.

88. (d) The correct sequence of the given sentences is **BACEDF.**

Third sentence will be C. Hence, **option (d)** is the right answer choice.

89. (b) The correct sequence of the given sentences is **BACEDF.**

Second sentence will be A. Hence, **option (b)** is the right answer choice.

90. (a) The correct sequence of the given sentences is **BACEDF.**

Fifth sentence will be D. Hence, **option (a)** is the right answer choice.

91. (a) The correct sequence of the given sentences is **BACEDF.**

Fourth sentence will be E. Hence, **option (a)** is the right answer choice.

92. (e) The correct sequence of the given sentences is **BACEDF.**

Sixth sentence will be F. Hence, **option (e)** is the right answer choice.

93. (c) A-C will be interchanged to make the sentence meaningful. Hence, **option (c)** is the right answer choice.

94. (b) A-D will be interchanged to make the sentence meaningful. Hence, **option (b)** is the right answer choice.

95. (c) B-D will be interchanged to make the sentence meaningful. Hence, **option (c)** is the right answer choice.

96. (c) Both A-F and C-E can be joined to form a grammatically and contextually correct sentence. The

sentences thus formed are:

A-F: The vaccines will be free in government hospitals.

C-E: One of my neighbours is a friendly student who keeps me up to date.

Hence, **option (c)** is the right answer choice.

97. (b) Both A-F and B-D can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:

A-F: There is a debate going on about an open ballot instead of a secret ballot in the Senate polls.

B-D: A fair investigation is one of the prerequisites of justice.

Hence, **option (b)** is the right answer choice.

98. (d) Both A-F and B-E can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:

A-F: Environmentalists became the first, official anti-nationals.

B-E: The Centre has so far remained silent about the issue of choice of vaccines.

Hence, **option (d)** is the right answer choice.

99. (d) Both A-E and C-D can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:

A-E: Embargo lifted on the grant of government business to private banks

C-D: Sebi said that it has asked the bourse to explain the reasons for trading not migrating to the disaster recovery site.

Hence, **option (d)** is the right answer choice.

100. (c) Both A-F and C-E can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:

A-F: Opening up of the government business will allow more private banks to participate.

C-E: The pandemic-induced downcycle has delayed the improvement in asset quality for Indian banks.

Hence, **option (c)** is the right answer choice.

IBPS PO MAINS EXAM 2020

(Based on Memory)

Reasoning & Computer Aptitude

DIRECTIONS (Qs. 1-5): *Read the information given below carefully and answer the questions accordingly.*

Seven families *A, B, C, D, E, F* and *G* live on separate floors of a seven-story building, but not in the same order. The ground floor of the building is numbered 1, the floor above it 2, and so on until the topmost floor is numbered 7. Each family likes different TV channels - Big Magic, Star, Zee, Dangal, National, Zoom, Zing but not necessarily in the same order. *D* lives on an even floor and just above the one who likes the Zee channel. *E* likes the Dangal channel. The one who likes the Zoom channel lives on floor number 2. Person *A* lives on the floor which is immediately above *D* and likes the Zing channel. *F* likes the National channel and lives on 4 numbered floors. *G* does not like Zee and Zoom channel. *G* does not live on the bottommost and topmost floor. *B* lives on an even numbered floor and immediately above the *E*'s floor. There are three floors between the one who likes Zoom and the one who likes Star.

1. Which of the following apir is true?
   - (a) 7th floor - *E* - Zing
   - (b) 2nd floor - *B* - Big Magic
   - (c) 5th floor - *C* - Zee
   - (d) 1st floor - *A* - Dangal
   - (e) 3rd floor - *G* - Zee

2. Who among the following lives on floor no. 5?
   - (a) The one who likes Big Magic
   - (b) The one who likes Zee
   - (c) The one who likes National
   - (d) The one who likes Star
   - (e) None of these

3. How many families live between *C* and the one who likes the Zoom channel?
   - (a) Five
   - (b) Two
   - (c) Three
   - (d) None
   - (e) None of these

4. On which of the following floors does *A* live?
   - (a) 7th
   - (b) 4th
   - (c) 3rd
   - (d) 1st
   - (e) Can't be determined

5. Which family likes National channel?
   - (a) *F*
   - (b) *A*
   - (c) *G*
   - (d) *E*
   - (e) *C*

DIRECTIONS (Qs. 6-8): *Read the information carefully and answer the questions :*

An artist has exactly seven colours *T, U, V, W, X, Y* and *Z* from which she must choose exactly five to be in an exhibit. Any combination is acceptable provided it meets the following conditions.

- If *T* is chosen, *X* cannot be chosen
- If *U* is chosen, *Y* must also be chosen
- If *V* is chosen, *X* must also be chosen

6. Which one of the following is an acceptable combination of colours for inclusion in the exhibit?
   - (a) *T, U, V, X, Y*
   - (b) *T, U, V, Y, Z*
   - (c) *T, W, X, Y, Z*
   - (d) *U, V, X, Z, Y*
   - (e) None of these

7. If the artist chooses colour *V* to be included among the colours in the exhibit, which one of the following must be true of that combination of colours?
   - (a) *T* is not chosen
   - (b) *Y* is not chosen
   - (c) *U* is chosen
   - (d) *W* is chosen
   - (e) None of these

8. Which one of the following substitutions can the artist always make without violating restrictions affecting the combination of colours given that the colour mentioned first was not, and the colour mentioned second was, originally going to be chosen?
   - (a) *T* replaces *V*
   - (b) *U* replaces *Y*
   - (c) *V* replaces *X*
   - (d) *Z* replaces *W*
   - (e) *U* replaces *X*

DIRECTION (Q. 9): *The critical reasoning question is based on a short passage, an argument, a set of statements, or a plan of action. For each question, select the best answer of the choices given and explain why the chosen answer is the right fit.*

Various studies have recently point out the importance of mental health, especially peace of mind, for work productivity and efficiency. They have time and again stressed that sound work comes from a sound mind. Company *XYZ* has decided to go ahead and implement mandatory 10-minute meditation for all employees prior to the start of work.

9. Which of the following assumptions hold?
   - (a) Meditating for 10 minutes is enough to ensure peace of mind at workplace.
   - (b) Employees resist mental health practices at workplace and consider it an intrusion on their freedom
   - (c) Not a single employee in the company is meditating in their own home. Employees who work often get tired and complain about it.
   - (d) Employees who meditate can sleep better than Employees who don't meditate.
   - (e) None of these

DIRECTION (Q. 10): *In the question below, a passage is given followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the passage and the following assumptions and decide which of the assumptions is implicit in the passage.*

Every minute, more than 500 hours of video areuploaded to YouTube. YouTube has over 2 billion users, almost one-third of all people on the Internet. The first YouTube video was uploaded in April 2005, featuring its co-founder Jawed Karim at the San Diego Zoo. YouTube is used to watch music videos, comedy shows, how-to-guides, recipes, hacks, and more.

10.   Assumptions :

I.   YouTube is a platform where people can upload videos about a variety of things.

II.   YouTube is a subsidiary of Google.

III.   YouTube is used by almost one-third of all people on the Internet.

(a)   Only I   (b)   Only II

(c)   Only III   (d)   All except III

(e)   All follows

DIRECTIONS (Qs. 11-12): *Read the information given below and answer the questions that follows :*

"X @ Y means, X is brother of Y"

"X + Y means, X is father of Y"

"X $ Y means, X is mother of Y"

"X % Y means, X is sister of Y"

"X * Y means, X is son of Y"

"X & Y means, X is daughter of Y"

"X Ω Y means, X is wife of Y"

"X β Y means, X is husband of Y"

11.   Expression : F & G β E & H Ω B + D β C $ A

How is A related to E?

(a)   Daughter   (b)   Father

(c)   Nephew   (d)   Niece

(e)   Cannot be determined

12.   What do the symbols '¥' and '€' means in 'G ¥ D € F' according to above relation?

(a)   Father, Grandfather   (b)   Uncle, Aunt

(c)   Sister-in-law, Aunt   (d)   Brother-in-law, Uncle

(e)   Cousin, Maternal Aunt

DIRECTION (Q. 13): *Study the following information carefully and answer the questions given below :*

Rising concerns about pollution in major Indian cities have led to a dramatic increase in sales of home air purifiers. The air purifier segment, which was earlier limited to select pockets of top metro cities, is firming its foothold in smaller cities, and online channels, are emerging as a key facilitator to meet the consumer demand in such places. "The onset of winters, smog situation in various parts of the country and the current concers around air normally raise the alarm around deteriorating air quality and indoor air pollution." "An air purifier makes the most sense now, owing to the alarming levels of increasing air pollution in major cities around the country," Eureka Forbes Managing Director and CEO said.

New Delhi, which has been called the most polluted city in the world by the WHO, is not only the biggest buyer of air purifiers but is also the city that is seeing the fastest growth in sales of these devices.

13.   Which of the following is/are definitely an effect(s) on the rising concern of pollution in the context of the passage?

(a)   The highest demand for air purifiers is from Delhi and its nearby states

(b)   Indoor air has been 10 to 25 times more polluted than outside air

(c)   The concern of government towards citizen has increased

(d)   The sales of air purifiers has increased up to 150%

(e)   Only 1 and 4

14.   In the question below are given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action regarding the problem, policy etc. Based on the information given in the statement to be true, then decide which of the suggested courses of action logically follow(s) for pursuing.

Statement :

In India, thousands of people die due to consumption of toxic alcohol. The government has taken certain steps previously but none of them were effective. Rohit, who has been recently appointed as the officer of narcotics department is given the project to suggest some of the schemes/ advice to stop the consumption of toxic alcohol. After certain research, Rohit found that most of the toxic alcohol contains the *ABC* component. The *ABC* component is mainly used to build certain types of medicines. The permit of *ABC* component is accessible to any small companies.

Course of Actions :

I.   Rohit suggest allowing the usage of *ABC* components to only Pharmaceutical companies.

II.   Rohit suggests to publish an order that using *ABC* components in alcoholoic drinks would be punishable by law.

(a)   Only I follows   (b)   Only II follows

(c)   Either I or II follows   (d)   Neither I nor II follows

(e)   Both I and II follow

DIRECTION (Q. 15): *The question given below consists of a passage, followed by three arguments I, II and III. You have to decide which of the arguments is/are 'strong' arguments and which of the arguments are 'weak' arguments and accordingly choose your answer from the alternatives given below each question.*

The Union Cabinet has cleared the proposal to suspend Insolvency and Bankruptcy Code (IBC) proceedings for bank defaulters for six months with a provision to extend the period for up to one year. This will be applicable for NPAs (non-performing assets) after March 25, 2020. Along with that, there is an exclusion of COVID-19 related debt/deafaults from the definition of default under IBC.

15. Is this a good step from the Government?

Arguments :

I. Yes. The move will offer relief to a lot of companies affected by the COVID-19 crisis.

II. No. This will encourage borrowers to default on their debt obligations and create a bad credit culture in society.

III. No. This will adversely affect loan recoveries of Banks and increase stress on the Banking system.

(a) Only I and II are strong

(b) Only I and III are strong

(c) Only II and III are strong

(d) Only I is strong

(e) All the arguments are strong

DIRECTION (Q. 16): *The critical reasoning question is based on a short argument, a set of statements, or a plan of action. For each question, select the best answer of the choices given and explain why the chosen answer is the right fit.*

Desertification is a type of land degradation in drylands in which biological productivity is lost due to natural processes or induced by human activities whereby fertile areas become increasingly arider. A huge issue that many countries have is the fact that there are large pockets of land that are going through a process that is known as desertification.

16. Which of the following statements is/are a possible reason for the increasing desertification?

(a) Animal grazing is a huge problem for many areas.

(b) Urbanization is providing fewer places for the plants to grow.

(c) Desertification is reducing the agricultural lands and making them infertile.

(d) Both (a) and (b)

(e) None of these

DIRECTION (Q. 17): *Answer the questions based on the information given below.*

Rohit, Deepak, Gaurav, Mukul, Lalit and Himanshu have different number of cars. Rohit has more cars than Lalit and Gaurav. Deepak has more cars than Himanshu, who doesn't have fewer cars than Rohit. Deepak doesn't have the highest number of cars.

17. Who has 4th highest number of Cars?

(a) Rohit   (b) Gaurav

(c) Mukul   (d) Himanshu

(e) Lalit

DIRECTION (Q. 18): *Study the information given below carefully and answer the questions that follow :*

A, B, C, D, E, F, G, H and *I* are nine houses. *C* is 2 km East of *B*. *A* is 1 km North of *B* and *H* is 2 km South of *A*. *G* is 1 km West of *H* while *D* is 3 km East of *G* and *F* is 3 km North of *G*. *I* is situated just in middle of *B* and *C* while *E* is just in middle of *H* and *D*.

18. Distance between *E* and *I* is

(a) 1 km.   (b) 2 km.   (c) 3 km.   (d) 1.5 km.

(e) 2.5 km.

DIRECTIONS (Qs. 19-22): *Study the following information carefully and answer the questions given below.*

A number arrangement machine, when given a particular input, rearranges it following a particular rule.

The following is the illustration of the input and the steps of arrangement.

Input : 567 873 751 239 912 262 492 712 183 376

Step I : 567 378 157 239 129 226 249 127 138 367

Step II : 29 17 02 15 07 10 14 05 05 15

Step III : 21 97 01 25 01 70 10 45 01 55

Step IV : 03 16 01 07 01 07 01 09 01 10

Step V : 5   4   4   5   1

Step VI : 1   4 4   5 5

And Step VI is the last step of the rearrangement as the desired arrangement is obtained. As per the rules followed in the above steps, answer the following questions for the given input.

Input : 436 347 553 552 782 654 153 635 634 158

19. Which number is fourth to the left of third number from right end in step II?

(a) 17   (b) 0 7   (c) 0 5   (d) 15

(e) 14

20. What is the sum of 5th number from right end in step III and 2nd number from left end in step V?

(a) 103   (b) 87   (c) 96   (d) 102

(e) 112

21. Which of the following is step IV of the given input?

(a) 02 12 11 15 01 18 01 05 01 07

(b) 20 11 01 05 01 18 01 05 01 08

(c) 02 11 01 05 01 38 81 05 31 07

(d) 02 11 61 05 01 38 01 05 01 17

(e) 02 11 01 05 01 18 01 05 01 07

22. How many odd numbers are to the right of 3rd number from left end in step III?

(a) Six   (b) Five

(c) Two   (d) Seven

(e) Three

DIRECTIONS (Qs. 23-24): *Read the information given below and answer the question that follows.*

A + B means *A* is to the east direction of *B* at a distance of either 5 m or 15 m.

A $ B means *A* is to the west direction of *B* at a distance of either 5 m or 15 m.

A & B means *A* is to the north direction of *B* at a distance of either 5 m or 15 m.

A # B means *A* is to the south direction of *B* at a distance of either 5 m or 15 m.

23. In which direction is point *Q* with respect to point *K*?

(a) South   (b) East

(c) North-East   (d) North-West

(e) West

24. Four among the five are the same in a certain way and thus form a group. Which among the following does not belong to the group?

(a) *O – L*   (b) *J – K*

(c) *Q – J*   (d) *Q – P*

(e) *R – I*

DIRECTIONS (Qs. 25-27): *Each of the questions below consists of a question and two or more statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question :*

(a)   Statement I and Statement II together are sufficient.

(b)   Any two statements together are sufficient.

(c)   Either statement (I), statement (II) together or statement (II) and statement (III) together are sufficient.

(d)   All the statement (I), statement (II) and statement (III) together are sufficient.

(e)   Only statement (III) is sufficient.

25.   There are eight members in a family, four males and four females. *A* is wife of *C*. *C* has two sons *Q* and *B*. *T* is the mother of *R*. How is *R* related to *C*?

   I.   *G* is the nephew of *Q*. *B* is married to *D*.

   II.   *T* is the sister in law of *D*. *D* is the wife of *B*.

   III.   *R* is the niece of *B*. *B* is the only sibling of *Q*.

26.   In a certain language :

   I.   'He work very hard' is written as 'ha ti na li'.

   II.   'Work is worship' is written as 'pa li sa'.

   III.   'He is very Happy' is written as 'mi na ki ha'.

   What is the code of 'hard'?

27.   I.   Reema correctly remembers that her brother's birthday is before 15th April but after twelfth April.

   II.   Reema's father correctly remembers that his son's birthday is before 17th April but after 9th April.

   III.   Reema's mother correctly remembers that Reema's brother's birthday is before 16th April but after 13th April.

   Which date in April was definitely Reema's borther's birthday?

DIRECTIONS (Qs. 28-30): *Read the following inforamtion carefully and answer the questions given below.*

In a certain language, all the consonants of English alphabet series are coded from 1 to 6 such that *B* is coded as 1, *C* as 2 and so on till *H* is coded as 6, thereafter the codes get repeated i.e. *J* is coded as 1, *K* as 2 and so on. The codes for vowels start with the code of *Y*. If *Y* is coded as 1, then *A*'s code will be 1, *E* will be coded as 2, *I* as 3 and so on.

After ascertaining the codes, following conditions are to be followed to determine the final codes.

i.   If code for two adjacent letters is same number then change the code of the letter that comes first as per alphabetical order will be changed to '#'. For example; If code for MEAN is 4435 then according to this rule new code will be 4#35.

ii.   If the code of two adjacent letters is such that the code of preceding letter is one less than that of succeeding letter then change the code of succeeding letter as '*'. For example if 6349 is a code then according to this rule new code will be 63*9.

28.   If "_____WAVE" is coded as 35*53 6253 then which of the following words will fill the blank?

   (a)   SOUND   (b)   WIDTH

   (c)   SPLIT   (d)   DROWN

   (e)   Both (a) and (c)

29.   Find the incorrectly coded word from the following:

   I.   BIRD - 142*   II.   CRAWL - 2##63

   III.   AHEAD - 2632*   IV.   SWING - 364*#

   (a)   Only I   (b)   Only I and II

   (c)   Only III   (d)   Only II

   (e)   All are coded correctly

30.   Code #2*243 stands for which of the following words?

   (a)   CREAME   (b)   CREATE

   (c)   FISCAL   (d)   ALBUMS

   (e)   None of these

DIRECTION (Q. 31): *Read the following information carefully and answer the questions which follow.*

Akhil starts from point P, walks 13 m towards the East, takes 1 left turn and walks 3 m. He then takes right turn, walks 3 m and stops.

Rakesh starts from the same point P, walks 15 m towards the South, takes a left turn and walks 21 m before stopping.

31.   If Akhil takes a right turn from the point where he stopped, walks 18 m and again stops, how far would he be from the position where Rakesh stopped?

   (a)   2m   (b)   5m

   (c)   8m   (d)   17m

   (e)   14m

DIRECTIONS (Qs. 32-36): *Study the given information carefully and answer the following questions below :*

There is a book shop in the market in which 8 boxes containing different books - History, Mathematics, Science, Geography, English, Sanskrit, Polity and Civics are kept one above the other but not necessarily in that order. The boxes are numbered 1 to 8 and arranged in ascending order i.e., the box which is numbered 1 is at the top.

Box of Civics is immediately below box of Geography. Box of Science is immediately below box of Mathematics. There are three boxes between box of Mathematics and box of Geography. There are two boxes betwen box of History and box of Civics. Box of Mathematics is at topmost position whereas box of Polity is kept at bottommost position. There is only one box between box of Geography and box of English.

32.   What is the position of box of Sanskrit book?

   (a)   immediately below box of Science book

   (b)   immediately above box of Geography book

   (c)   at topmost position

   (d)   at bottommost position

   (e)   between the box of Geography and English book

33. Which box is numbered 4?
- (a) box of Sanskrit book
- (b) box of History book
- (c) box of Science book
- (d) box of Geography book
- (e) box of Civics book

34. Which box is exactly between box of Geography book and box of English book?
- (a) box of Mathematics book
- (b) box of History book
- (c) box of Civics book
- (d) box of Sanskrit book
- (e) box of Science book

35. How many boxes are kept between box of Science and Civics books?
- (a) 2
- (b) 6
- (c) 4
- (d) 1
- (e) 3

36. Which box is kept at the second last position?
- (a) box of Science book
- (b) box of History book
- (c) box of Geography book
- (d) box of English book
- (e) box of Civics book

DIRECTIONS (Qs. 37-38): *Read the information carefully and answer the questions.*

12 girls are seated in two parallel rows with six girls in each row such that there is equal distance between the adjacent girls and each girl in one row faces the girls in another row. In row 1, *A, B, C, D, E* and *F* are seated facing South and in Row 2, *G, H, I, J, K* and *L* are seated facing North not necessarily in the same order. *L* sits third to the left of *G. G* does not sit at the extreme end of the row. The one who faces *L* is an immediate neighbour of *C*.

Two girls sits between *C* and *F. I* face *D. D* sits to the immediate right of *A. D* is not an immediate neighbour of *C. E* does not face *G.* Neither *H* nor *K* faces *E. K* does not sit in front of *C.*

37. What is the position of *A* with respect to *E*?
- (a) Third to the left
- (b) Third to the right
- (c) Fourth to the right
- (d) Fourth to the left
- (e) Second to the right of *E*

38. How many girls are sitting between *G* and *H*?
- (a) Three
- (b) Four
- (c) Two
- (d) Five
- (e) One

DIRECTIONS (Qs. 39-42): *Read the information carefully and answer the questions that follow :*

A, S, D, F, G, H, J and *K* are sitting in a straight line but not necessarily in the same order. Some of them are facing south while some are facing north (Note - Same direction means the person is facing north then the other also faces north and vice-versa. Opposite directions means that if one person is facing north then the other person is facing south and vice-versa).

G faces North, only three people sits to the left of *G.* Only two people sit between *G* and *S. H* sits third to the right of *K. K* is neither an immediate neighbour of *G* nor *S. K* does not sit at any of the extreme end of the line. The only neighbour of *F* faces north. *F* is not an immediate neighbour of *K. A* is sitting second to the left of *F. A* faces the same direction as *K.* The persons sitting at extreme ends facing opposite directions. *D* faces the same direction as *F. H* faces south.

39. How many people facing north direction?
- (a) 3
- (b) 4
- (c) 5
- (d) 6
- (e) 2

40. Four of them are alike in a certain way hence from a group, which among the following does not belong to that group?
- (a) *J, D*
- (b) *G, K*
- (c) *S, H*
- (d) *A, F*
- (e) *D, A*

41. How many people are facing south?
- (a) One
- (b) Three
- (c) Four
- (d) Six
- (e) Two

42. Who is the third to the left of *A*?
- (a) *D*
- (b) *F*
- (c) *G*
- (d) *K*
- (e) *H*

DIRECTIONS (Qs. 43-45): *Read the information given and answer the following questions :*

The office staff of a publication presently consists of three PRs *A, B, C* and 5 SMEs *D, E, F, G, H.* The management is planning to open a new office in another city using 2 PRs and 3 SMEs of the present staff. To do so they plan to separate certain individuals who don't function well together. The following guidelines were established to set up the new office.

I. PRs *A* and *C* are constantly finding fault with one another and should not be sent together to the new office as a team.

II. *C* and *E* function well alone but not as a team, they should be separated.

III. *D* and *G* have not been on speaking terms and shouldn't go together.

IV. Since *D* and *F* have been competing for promotion they shouldn't be a team.

43. If *C* is sent to the new office, which member of the staff cannot go with *C*.
- (a) *B*
- (b) *D*
- (c) *F*
- (d) *G*
- (e) None of these

44. If *C* and *F* are moved to the new office, how many combinations are possible.
- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

45. If *A* is to be moved as one of the PRs, which of the following cannot be a possible working unit.

   (a) *ABDEH*   (b) *ABEFH*

   (c) *ABDGH*   (d) *ABEGH*

   (e) None of these

Data Analysis & Interpretation

DIRECTIONS (Qs. 46-50): *Read the given information carefully and answer the given questions :*

One Male and one Female invest in 5 Stock Markets as shown in the graph below. Profit earned by them is shown in the table below.
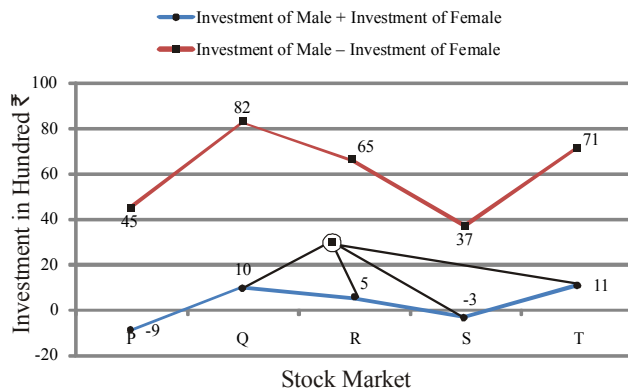

	Profit of Male (% of investment)	**Profit of Female** (% of investment)
P	15	5
Q	7	11
R	9	7
S	13	5
T	19	20

46. What is the average investment of Male in all stock markets?

   (a) ₹2950   (b) ₹3140

   (c) ₹3350   (d) ₹3170

   (e) None of these

47. What Stock Markets will be the total profit of Female in those Stock Markets where Male invests less than Female?

   (a) ₹475   (b) ₹230

   (c) ₹240   (d) ₹425

   (e) None of these

48. If profit percentage of each in Stock market *T* got interchange then what will be the new profit of (Male + Female) in Stock Market *T*?

   (a) ₹1390   (b) ₹1379

   (c) ₹1410   (d) ₹1411

   (e) ₹1399

49. What is the difference of total investment of Male in all Stock Markets and overall profit of Female in all Stock Markets?

   (a) ₹14359   (b) ₹14859

   (c) ₹13459   (d) ₹14259

   (e) None of these

50. Profit of Male in Stock Market *T* is how much percentage more than profit of Female in Stock Market *T*?

   (a) 55%   (b) 50%

   (c) 60%   (d) 52%

   (e) 53%

DIRECTION (Q. 51): *Given below are three quantities. Based on the given information, determine th relation between the quantities.*

51. **Quantity I :** The difference between present ages of Deepak and Vimal is 4 years and the average of present ages of Mukul and Deepak is 30 years. If Amit is 48 years older to Mukul and Deepak is 36 years younger to Mukul, then what is the average of the present ages of Amit and Mukul?

   Quantity II : the ratio of present ages of *A, B* and *C* is 18 : 14 : 13, respectively, then difference between the present ages of *A* and *C* is 25 years. What is the average of the ages of *A, B* and *C*.

   Quantity III : 71 years.

   (a) Quantity I > Quantity II > Quantity III

   (b) Quantity II > Quantity I > Quantity III

   (c) Quantity III > Quantity I > Quantity II

   (d) Quantity II > Quantity III > Quantity I

   (e) Quantity I > Quantity III > Quantity II

DIRECTION (Q. 52): *Given below are two quantities. Based on the given information, determine the relation between the two quantities.*

52. **Quantity I :** Present age of Ankur is 11 years more than the six times of the present age of his grand daughter Rekha and Rekha is 9 years younger to Praveen whose age is 19 years old. Find the present age of Ankur.

   Quantity II : Average age of the remaining girls in the group, if the average age of a group of 12 girls is 30 years. Two girls, each 25 years old, left the group.

   (a) Quantity I > Quantity II

   (b) Quantity I < Quantity II

   (c) Quantity I ≥ Quantity II

   (d) Quantity I ≤ Quantity II

   (e) Quantity I = Quantity II or relation can't be established

DIRECTIONS (Qs. 53-57): *Study the following pie charts carefully and answer the questions given below :*

Ford manufactured 17,500 cars in the year 2015. Company has manufactured five different cars : Endeavour, Figo, Aspire, Freestyle and Mustang.
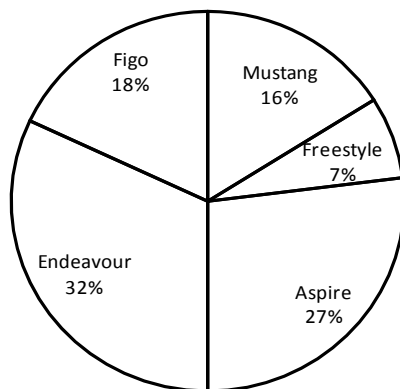
Following Pie Chart gives information about percentage wise distribution of different cars manufactured by Ford.

Manufactured (Total 17,500)
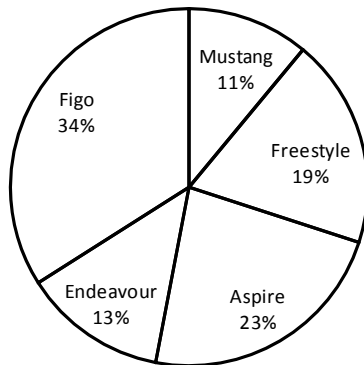
Below Pie Chart gives the information about percentage wise breakup of cars sold in 2015.

Sold (Total 12,500)

53. What is the difference between numbers of Freestyle and Endeavour Cars sold together to number of Mustang and Aspire Manufactured together?
(a) 1075
(b) 1000
(c) 1150
(d) 1320
(e) 1275

54. Figo cars sold by Ford is what percent less (approximate) than the Aspire Cars manufactured by Ford?
(a) 41%
(b) 42%
(c) 43%
(d) 44%
(e) 45%

55. What is the ratio Endeavour cars sold to that of Figo cars manufactured?
(a) 119 : 80
(b) 80 : 119
(c) 79 : 80
(d) 80 : 79
(e) None of these

56. If X denotes the average of Freestyle, Aspire and Endeavour cars sold by Ford and Y denotes average of Mustang and Freestyle cars manufactured by Ford, then Y is what percent of X?

(a) 97%
(b) 96%
(c) 93%
(d) 95%
(e) 92%

57. In 2016, Ford manufactured 225 more Endeavour cars than the previous year. Manufacturing of every other car in 2016 was increased by 175 than the previous year. What is the ratio between Endeavour cars manufactured in 2016 to that of Aspire car manufactured in 2016?
(a) 25 : 42
(b) 23 : 27
(c) 27 : 23
(d) 42 : 25
(e) 17 : 31

DIRECTIONS (Qs. 58-62): *Study the following table chart carefully and answer the questions given below :*

The Franchise of a Company are classfied into six categories, F1 to F6, based on their customer. The following table gives the number of Franchise of the company belonging to different categories in the years 2009 and 2019.

Category	Customer	No. of Franchise in 2009	No. of Franchise in 2019	Ratio of no. of male to female	Number of regular customers	Literacy rate among regular customers
F1	<200	104	92	5 : 3	60%	60%
F2	200 - 500	141	127	2 : 5	50%	50%
F3	501 - 1000	145	144	5 : 3	60%	40%
F4	1001 - 2000	110	129	3 : 2	60%	40%
F5	2001 - 5000	62	80	6 : 7	40%	80%
F6	>5000	13	18	8 : 7	64%	50%

The ratio of literacy for regular males to regular females in every category is the same as the ratio of customers of males to females given in the table.

58. Find the customer of category F6 franchises if 25% of regular female literate are doctors, 20% rest regular female literate are engineers, 25% of rest of regular female literate are teachers and remaining 1008 of regular female literate are CA.
(a) 12500
(b) 13000
(c) 16275
(d) 15000
(e) 15050

59. Find the average customers of Franchises of category F4 in 2009 if there 15840 regular female are literate in category F4 from all the franchises combined.
(a) 1600
(b) 1475
(c) 1500
(d) 1565
(e) 1400

60. In 2019, find the total customers in category F2 franchises was at least what percentage of the total customers in category F5 franchises?
(a) 5%
(b) 6%
(c) 7%
(d) 8%
(e) 4%

61. If the total customers in category F4 franchises in 2019 was less than that in 2009, find what could be the least possible average customers of category F4 franchises in 2009? (approx.)
   (a) 1773   (b) 1772
   (c) 1774   (d) 1674
   (e) 1734

62. In franchises of category F1 consider all the franchises have equal customers. Find what could be the maximum number of employed females in percentage among all regular customers if only literate females can have jobs.
   (a) 7%   (b) 6.2%
   (c) 5.6%   (d) 5%
   (e) 5.2%

DIRECTIONS (Qs. 63-66): *The following questions have three statements. Study the question and the statements and decide which of the statement(s) is/are necessary to answer the question.*

63. Find the number of similar rectangular blocks of minimum area that can be formed in 3 grounds.
   Statement I : The length of a rectangular block is 8 cm.
   Statement II : The width of a rectangular block is 3 cm.
   Statement III : The areas of three fields are 312 cm², 408 cm² and 552 cm².
   (a) Statement I and II together are sufficient to answer the question.
   (b) All three statements together are required to answer the question.
   (c) Either statement I or II and statement III are required to answer the question
   (d) Statement III alone is sufficient to answer the question
   (e) Any two statements together are sufficient to answer the question.

64. What will be the average price of the resulting mixture?
   Statement I : Black grapes cost ₹10 / kg and Green grapes cost ₹ 12 / kg.
   Statement II : The ratio of the mixture of black grapes and green grapes is 1 : 2.
   Statement III : The number of black grapes and apples are same.
   (a) Only statement I is sufficient to answer the question
   (b) Statement I and Statement II together are sufficient to answer the question
   (c) Only statement III is sufficient to answer the question
   (d) Statement I and Statement III together are sufficient to answer the question
   (e) Any two statements together are sufficient to answer the question.

65. Find the three numbers.
   Statement I : H.C.F. of three numbers is 15.
   Statement II : The ratio of the three numbers is 2 : 3 : 4.

Statement III : The difference between the first two numbers is 15.
   (a) Only statement I is sufficient to answer the question.
   (b) Either statement II or statement III is sufficient to answer the question
   (c) Statement I and Statement III together are sufficient to answer the question
   (d) Statement I and Statement II together are sufficient to answer the question
   (e) Any two statements together are sufficient to answer the question.

66. **Statement I :** If the price of each ball is increased by ₹30, the amount collected will be ₹4500 more.
   Statement II : Ratio of number of balls and the cost of a ball is 3 : 5.
   Statement III : If the number of balls is decreased by 30 (keeping the cost per ball constant), the amount collected will be ₹7500 less.
   (a) Statement I and Statement II together are sufficient to answer the question.
   (b) Statement II and Statement III together are sufficient to answer the question.
   (c) Statement I and Statemetn III together are sufficient to answer the question.
   (d) Any of the statements alone is sufficient to answer the question.
   (e) Any two statements together are sufficient to answer the question.

DIRECTIONS (Qs. 67-69): *Find the wrong term which does not follow the pattern that other numbers follow in the following number series :*

67. 29, 67, 129, 219, 349, 519
   (a) 349   (b) 225
   (c) 219   (d) 349
   (e) 29

68. 16, 40, 105, 250, 625, 1562.5
   (a) 625   (b) 16
   (c) 250   (d) 40
   (e) 105

69. 3, 5, 21, 173, 2051, 30730
   (a) 3   (b) 5
   (c) 2051   (d) 30730
   (e) 21

70. *A* and *B* runs on a 600 m long circular track at a speed of 12 m/s and 18 m/s respectively. They start at same time but run in opposite direction. Find the number of times, they would have met when *B* covers 4320 meters.
   (a) 10 times   (b) 11 times
   (c) 15 times   (d) 12 times
   (e) None of these

71. Yogesh was travelling on one side of the Outer Ring Road with a constant speed of 105kmph in his car, Gaurav was travelling with a constant speed of 75 kmph in the opposite direction. When they crossed each other, Yogesh decided to take a U-turn and meet him. But before taking a U turn, Yogesh had to travel for another 4 minutes. How long will it take for Yogesh to meet Gaurav? [Assume time taken by Yogesh to take U turn is negligible]

　(a)　23　　　　　　　(b)　26
　(c)　28　　　　　　　(d)　29
　(e)　27

72. In a river, the ratio of the speed of the stream and the speed of a boat A in still water is 5 : 7. Again, the ratio of the speed of the stream to the speed of another boat– B in still water is 6 : 8. What is the ratio of the speed of the boat– A to that of the boat– B in still water?

　(a)　20 : 21　　　　　(b)　21 : 20
　(c)　23 : 20　　　　　(d)　20 : 23
　(e)　17 : 23

DIRECTIONS (Qs. 73-76): *Study the following information carefully and answer the questions that follow :*

In a school there are 800 students who have visited five different cities viz. Delhi, Ajmer, Goa, Mumbai and Dehradun. Fifty four per cent of the total students are boys. One-fourth of the total number of girls visited Mumbai. Twenty five per cent of the total number of girls visited Delhi. The number of girls who visited Dehradun is half the number of girls who visited Delhi. Five-sixths of the remaining girls visited Ajmer. The total number of students who visited Mumbai is 192. One-fourth of the total number of boys visited Goa. 101 boys have visited Ajmer. Two-third of the remaining number of boys have visited Delhi.

73. What is the total number of students who visited Goa?

　(a)　123　　　　　　(b)　133
　(c)　142　　　　　　(d)　131
　(e)　None of these

74. Total number of students who visited Dehradun is approximately what per cent of number of girls who visited Delhi?

　(a)　90%　　　　　　(b)　81%
　(c)　95%　　　　　　(d)　93%
　(e)　97%

75. What is the average number of boys who visited Delhi, Goa and Dehradun together?

　(a)　82　　　　　　　(b)　72
　(c)　77　　　　　　　(d)　85
　(e)　75

76. If 7 boys did not go to Ajmer then what is the approximately percent of the girls who went to Goa to that of the boys who went to Ajmer?

　(a)　23%　　　　　　(b)　21%
　(c)　22%　　　　　　(d)　24%
　(e)　25%

DIRECTIONS (Qs. 77-79): *Study the following information carefully and answer the questions that follow :*

A milkman goes to a city by bicycle and travels the distance of 10 km to reach the city in 50 minutes. He buys a cylinder whose volume of 4620 m³ and also buys a conical container. The volume of the container is (1/7) times the volume of a cylinder and the height of the container is 10 m. During rturning from the city he takes 20 minutes less time than coming to city.

77. What is the slant height of a conical container?

　(a)　$\sqrt{163}$ m　　　　　(b)　$\sqrt{171}$ m
　(c)　$\sqrt{168}$ m　　　　　(d)　$\sqrt{173}$ m
　(e)　None of these

78. What is the curved surface area of cylinder if the height of cylinder is 30 meters?

　(a)　$1310\,m^2$　　　　　(b)　$1300\,m^2$
　(c)　$1320\,m^2$　　　　　(d)　$1340\,m^2$
　(e)　None of these

79. How much speed did he increase during returning from the city?

　(a)　3 km/hr　　　　　(b)　2 km/hr
　(c)　4 km/hr　　　　　(d)　5 km/hr
　(e)　2½ km/hr

80. In the following series, one of the terms given is wrong which is denoted by N.
　Series : 85, 175, 355, 715, 1288
　Find that term and mark the statement whose value is equivalent to $\dfrac{N}{28}+1$ and mark that as your answer.

　(a)　It is a prime number
　(b)　It is nearest to 40 which is closest multiple of 4
　(c)　Sum of digit is less than 8
　(d)　Product of digits is more than 29
　(e)　None of these

English Language

DIRECTIONS (Qs. 81-84): *Read the passage and answer the questions that follow.*

The Economic Survey for 2020-21 is an expansive attempt at reviewing the developments in the Indian economy during the current financial year and providing an outlook for its near-term prospects. Spread over 700 pages, the survey opts for a self-congratulatory tone while highlighting the policy achievements of the government in steering the economy through the treacherous shoals of "the most unfathomable global health emergency experienced in modern history". Citing an approach that used 'graded public health measures to transform the short-term trade-off between lives and livelihoods into a win-win that would save both lives and livelihoods over the longer term', the survey asserts that India established a globally unique model of strategic policymaking in containing

the COVID-19 pandemic while helping the economy recover quickly from its **deleterious** impact.

There is no denying that the country appears to have not only flattened the curve but also, crucially, so far avoided a bruising second wave of infections seen in much of Europe and the U.S. While it may be debatable as to how much of the turn in the pandemic's progress could be attributed wholly to proactive policy measures, the survey's contention that India has turned the crisis into an opportunity to strengthen its long-term growth potential through 'seminal reforms' sounds off-key, especially given the ongoing farmers' agitation against the new farm laws as well as the plight of the struggling small and medium-scale industries and informal sectors.

81. Which of the following can be inferred from the given passage?
    (I) The Economic Survey reviews the India's economic developments.
    (II) The government' policies brought the economy out from the pandemic-induced health emergency.
    (III) The graded public health measures were not fruitful for saving lives and livelihoods.
    (a) Both I and III   (b) Only II
    (c) Both I and II   (d) Only I
    (e) None of these

82. Which the following cannot be assumed from the given passage?
    (I) India has flattened the infection curve along with avoiding the second wave of the infections.
    (II) The pandemic's progress attributed majorly to the policy measures of the government.
    (III) The second wave of infections has encompassed US and Europe.
    (a) Only III   (b) Only II
    (c) Both I and II   (d) Both II and III
    (e) None of these

83. Why the strengthening of long-term growth potential through 'seminal reforms' sounds off-key, as mentioned by the author?
    (I) Due to the current farmers' protests against the three farm laws.
    (II) Because of the struggle of Small and medium industries.
    (III) The informal sectors' are struggling too.
    (a) Only III   (b) Only II
    (c) Both II and I   (d) Both II and III
    (e) All I, II, and III

84. Which of the following is most similar in meaning with **DELETERIOUS** as highlighted in the passage?
    (a) Beneficial   (b) Inimical
    (c) Advantageous   (d) Profitable
    (e) Lucrative

DIRECTIONS (Qs. 85-88): *Read the passage and answer the questions that follow.*

The new measures, which were announced today by Scotland's Rural Economy Secretary, Fergus Ewing are to be introduced following a recent consultation with the industry and will be brought into effect from 1 May 2021. They follow concerns from conservation organisations and recreational anglers about the possible ecological impacts of the harvesting of wild wrasse from around the UK coast for use as cleaner fish in Scottish salmon farms. Under the new rules, wrasse fishers will have to meet certain criteria, show they have an appropriate relationship with an aquaculture business and have a proven track record to obtain a permit for harvesting wild wrasse. The move is expected to improve management of the fishery, provide clear instructions to all those involved, and secure better reporting of activity and data from fishers to Marine Scotland.

Ewing said: These measures will support the sustainable growth of our valuable aquaculture industry while also maintaining the right balance across our economic, environmental and social responsibilities. Mandatory measures for wild wrasse harvesting will help to maintain healthy stocks of this fish which is so important for treating and controlling lice in our salmon farms while improvements to the way we consider regulation of fish farms will ensure the impact from interactions with iconic wild salmon and sea trout is reduced.

85. What concerns the new measures being brought into from 1st May 2021 follow?
    (a) Ecological impacts of wild wrasse harvesting
    (b) Concerns from Conservation organization and recreational anglers
    (c) Both (a) and (b)
    (d) To promote the growth of Scottish fish farms across the UK coast
    (e) The Salmon farms in Scotland are facing financial issues

86. What the mandates of the new law are as discussed in the given passage?
    (a) The wrasse fishers will be required to meet certain criteria
    (b) They should have a relationship with an aquaculture business
    (c) They need to possess a proven track record for obtaining a permit of wild wrasse harvesting
    (d) All of the above
    (e) None of these

87. In what ways, the new moves are beneficial?
    (i) Improve fishery management
    (ii) Provide clear instructions to the involved people
    (iii) Secure better reporting of data and activity from fishers to Marine Scotland
    (a) Both i and iii   (b) Only ii
    (c) Both ii and iii   (d) Only iii
    (e) All i, ii, and iii

88. How the measures will be a support for the aquaculture industry as mentioned in the given passage?
    (i) Support sustainable growth
    (ii) Maintaining right balance across environmental, social and economic responsibilities
    (iii) Maintain healthy stocks of wild wrasse
    (iv) Treatment and control of lice in salmon farms
    (a) i, ii, iii, and iv   (b) i, iii, and iv
    (c) i, ii, and iv   (d) ii, iii, and iv
    (e) None of these

DIRECTIONS (Qs. 89-92): *Read the passage and answer the questions that follow.*

The worsening water situation in India has been discussed very often and in great detail, but fresh warnings keep coming out from experts and various organisations. Water scarcity is not specific to India, but it has a special relevance to the country because its per capita availability is low and is falling. According to the World Wide Fund for Nature (WWF)'s latest report, about 350 million people living in 100 cities of national importance across the world are at immediate risk of a water crisis, and all of them will face a severe crisis by 2050. The report concluded that "these cities face looming scenarios of water scarcity unless urgent action is taken to mitigate and adapt to climate change". Along with climate change, rising population is also a factor that will aggravate the crisis.

The report has named 30 Indian cities, including Bengaluru and other metropolises and Hubli-Dharwad, as very susceptible to water risk. Some of them are in the very high-risk category. The risk has been increasing in the past few decades, and the past few years have seen the situation getting more and more acute. This is because many strategies that have been planned and sought to be implemented to deal with it have not been effective. In most cases, the problem was not with the strategies and solutions but with their implementation. There is greater **waywardness** in the behaviour of the monsoon, groundwater resources have been depleting and conservation efforts are mostly inadequate. Each of these, and other problems, have to be handled in separate and specific ways, and every region and even locality will need its own solutions. That makes the solutions complex and difficult.

89. Though water scarcity in India is not specific in India but it is relevance to the country, why?
    (i) Low availability of water per capita
    (ii) Water is scarce and situation is getting worsened
    (iii) Falling water availability per capita
    (a) Both i and ii   (b) Both ii and iii
    (c) Only ii   (d) Both i and iii
    (e) All i, ii, and ii

90. Which of the following statement/s is/are true as per the WWF's latest report?
    (a) Citizens of nationally importance cities around the world are at immediate risk of water crisis.
    (b) They will be facing severe water crisis by the year 2050.
    (c) Population boom will be severing the water crisis
    (d) The cities are facing looming scenarios of water scarcity.
    (e) All of the above

91. Why the author feels that the problem was with implementation of strategies?
    (a) Changing pattern of monsoon
    (b) Depletion of ground water resources
    (c) Water conservation efforts are inadequate
    (d) The issues have not been handled separately and in specific manner
    (e) All of the above

92. Which of the following word is most similar in meaning with the given word as highlighted in the passage?
Waywardness
    (a) Compliant   (b) Tractable
    (c) Obstinate   (d) Amenable
    (e) All of the above

DIRECTIONS (Qs. 93-94): *In each of the questions below, a sentence is given with two blanks that indicate that some parts are missing. Identify the correct pair of words that fit in the sentence to make it grammatically and contextually correct.*

93. The satellite has a/an _____ of Prime Minister Narendra Modi on the top panel to show _____ for the aatmanirbhar initiative and space privatisation,
    (a) Approval, Praiseworthy
    (b) Agreement, Discord
    (c) Counsel, Adversary
    (d) Engraving, Solidarity
    (e) Enticing, Fortune

94. Social offenders of Naga customary laws have over the ages _____ a cramped, triangular cage made from the logs of an indigenous tree that _____ the skin.
    (a) Pacified, Fascinates
    (b) Dreaded, Irritates
    (c) Augmented, Adages
    (d) Incriminated, Exculpates
    (e) Astounded, Endures

DIRECTIONS (Qs. 95-98): *Fill in the blanks with appropriate words to make the passage meaningful.*

President Biden's $1.9 trillion covid-19 relief plan, added to the stimulus measure Congress passed in December with the incoming administration's strong support, would represent the boldest act of macroeconomic _____ **(95)** policy in U.S. history. Its ambition, its rejection of _____ **(96)** orthodoxy and its commitment to reducing economic inequality are all admirable. It is imperative that safety-net measures for those suffering and investments in vaccination and testing be undertaken rapidly after the _____ **(97)** delays of the last months of the Trump administration. Yet bold measures need to be accompanied by careful consideration of risks and how they can be mitigated. While the arguments for providing relief to those hurt by the economic fallout of the pandemic, investing in controlling the virus and supporting consumer demand are compelling, much of the policy discussion has not fully _____ **(9w8)** with the magnitude of what is being debated.

95. (a) Defamation   (b) Destruction
    (c) Stabilization   (d) Foundation
    (e) Deception

96. (a) Adversity   (b) Prosperity
    (c) Audacity   (d) Absurdity
    (e) Austerity

97. (a) Inflexible   (b) Indefensible
   (c) Credible   (d) Negligible
   (e) Compatible
98. (a) Unskilled   (b) Undisguised
   (c) Tangled   (d) Reckoned
   (e) Unconfined

DIRECTIONS (Qs. 99-102): *In the questions given below, a sentence has been broken down into four fragments labeled (A), (B), (C) and (D) and arranged, not necessarily in the correct order. You have to find the correct order of arrangement from the options given below. In case, the sentence is correct in its original form, please select (e) as your answer.*

99. Act, noting that it was superseding rules (A)/issued under Section 79 of that statute in 2011 (B)/ the Union Government issued a set (C)/ of rules under the Information Technology (D)
   (a) DBCA   (b) ADBC
   (c) BCAD   (d) CDAB
   (e) No rearrangement required.

100. Rational that our National Science (A)/ it seems very thoughtful and (B)/ Day celebrates a discovery and (C)/ not the birthday of its discoverer (D)
   (a) BDAC   (b) DCBA
   (c) BACD   (d) DCBA
   (e) No rearrangement required.

101. It is of significant concern that the (A)/ to bring digital news media under its (B)/regulatory ambit without legislative action (C) /purview of the IT Act, 2000, has been expanded (D)
   (a) DBCA   (b) ADBC
   (c) BCAD   (d) CDAB
   (e) No rearrangement required.

102. Even though the Constitutional Bench (A)/ did not censure him for mal-intent (B)/as demanded by the petitioners, (C)/Mr. Oli would be feeling out on a limb (D)
   (a) BADC   (b) BACD
   (c) CDBA   (d) CDAB
   (e) No rearrangement required.

DIRECTIONS (Qs. 103-105): *In the questions given below few sentences are given which are grammatically correct and meaningful. Connect them by the word given above the statements in the best possible way without changing the intended meaning. Choose your answer accordingly from the options to form a correct, coherent sentence.*

103. AND
   (A) The rules have grown to include a chapter on how digital news sites have to be registered before the Ministry of Information and Broadcasting.
   (B) There is an increasing public discussion on concerns regarding the usage of digital powers.

(C) They further laid out a mechanism by which streaming video sites featuring original content have to agree to a government-supervised "self regulatory system".
(D) Challenges are being made by firms and impacted individuals against their abuse which something that the Union Government would like to avoid.
   (a) Only C-D   (b) Only B-C
   (c) Only A-C   (d) Both A-C and B-D
   (e) None of these

104. AS
   (A) The RBI is still trying its best to keep government borrowing costs low by managing gilt auctions and buying gilts directly.
   (B) Long-term bonds react more to rate changes.
   (C) Categories such as gilt, long-duration and dynamic bond funds delivered CAGRs of 8-10% in the five years from FY15 to FY21.
   (D) The tug-of-war between the RBI and the markets is sparking sharp, two-way moves in bond prices.
   (a) Only C-D   (b) Only B-C
   (c) Only A-B   (d) Only B-D
   (e) None of these

105. SO THAT
   (A) It was at the Calcutta International Cult Film Festival, that the film began its dream run.
   (B) It also featured in the official selection and special mentions at international film festivals in Venice, Japan, Canada.
   (C) It is important to be sensitised about headache syndromes in children.
   (D) They do not suffer loss of education and are not subjected to unnecessary tests.
   (a) Only C-D   (b) Only B-C
   (c) Only A-B   (d) Both A-C and B-D
   (e) None of these

DIRECTIONS (Qs. 106-107): *In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct sequence of words in order to make the sentence grammatically and contextually correct. If the sentence is correct as it then select option (e) as your choice.*

106. Under the **empowered (A)**, it appears as if the citizens have been **guidelines (B)** and that there is now a fair **grievance (C)** redressal mechanism for users of **digital (D)** platforms.
   (a) CBAD   (b) BACD
   (c) BADC   (d) DACB
   (e) No rearrangement required

107. Mr. Biden cannot **point (A)** to alienate the Saudi regime beyond a **intensify (B)** because this could **returning (C)** Riyadh's opposition to his stated intention of **afford (D)** to the Iran nuclear deal.
   (a) CABD   (b) CBAD
   (c) DBCA   (d) DABC
   (e) No rearrangement required

DIRECTIONS (Qs. 108-110): *In the passage given below there are three blanks. Corresponding to each question six words are given. In the options, a combination of three words is given corresponding to the three words. In each find out the appropriate set of words in each case which can most suitably complete the sentence without altering the meaning of the statement.*

108. As governments democratic and authoritarian begin the _____ of vaccinating citizens against COVID-19, India has _____ as perhaps the first country in the world whose leader is using vaccination certificates to _____ his own politics and cult of personality.

(A) Divulged   (B) Authority
(C) Process   (D) Emerged
(E) Promote   (F) Harass
(a) ABC   (b) CDE
(c) BCE   (d) ADF
(e) BDF

109. Raman _____ at several scientific societies across India and he also toured Europe to _____ scientific conferences, which also attracted _____ in the European press.

(A) Lectured   (B) Benefitted
(C) Hauling   (D) Concentrate
(E) Coverage   (F) Attend
(a) BEF   (b) ACF
(c) AEF   (d) BCE
(e) AFE

110. The order was meant to _____ local manufacturing, in the _____ of 'Make in India', but had unintended consequences for India's _____ genome-sequencing efforts.

(A) Spirit   (B) Boost
(C) Fledgling   (D) Unfeeling
(E) Desist   (F) Liberty
(a) DAC   (b) BAC
(c) CFA   (d) DAB
(e) CEF

DIRECTIONS (Qs. 111-115): *Rearrange the paragraph and answer the following questions.*

(A) Other parties are attempting to emulate this, but with far less success.

(B) Across India, meanwhile, we are witnessing a near daily ritual of individuals belonging to one political party or the other shifting their allegiance and, while doing so, indulging in a diatribe against the party they exited.

(C) Electoral majorities as a result, and the character of some State governments, have, hence, tended to change.

(D) A great deal of pervasive decline in political attitudes is attributable to the prevailing belief that winning elections is the sine qua non of democratic politics, and the raison d'etre for any political party to exist.

(E) India's leading political party, which currently holds power at the Centre and a majority of States, has converted this into a fine art, and makes no secret of its determination to pursue this path.

111. What is the THIRD sentence after rearrangement?
(a) C   (b) D   (c) E   (d) A
(e) B

112. What is the SECOND sentence after rearrangement?
(a) B   (b) A
(c) C   (d) E
(e) D

113. What is the FIFTH sentence after rearrangement?
(a) D   (b) E
(c) C   (d) A
(e) B

114. What is the FOURTH sentence after rearrangement?
(a) E   (b) D
(c) C   (d) A
(e) B

115. What is the FIRST sentence after rearrangement?
(a) D   (b) E
(c) B   (d) C
(e) A

General Economic & Banking Awareness

116. The first urban co-operative bank in India to transition to a SFB (small finance bank) under the voluntary transition scheme is—
(a) Abhyudaya Co-op. Bank Ltd.
(b) Shivalik mercantile.
(c) Capital Small Finance Bank Ltd
(d) Bombay Mercantile Co-op. Bank
(e) New India Co-op. Bank Ltd.

117. Ola to set up world's largest scooter factory in_____
(a) Tamil Nadu   (b) Delhi
(c) Mumbai   (d) Chennai
(e) Lucknow

118. Atmanirbhar women gold scheme has been launched by which bank?
(a) PNB   (b) ICICI
(c) Bank of Baroda   (d) SBI
(e) Bank of India

119. What was the theme of 16th pravasi bharatiya divas that was celebrated on 9th Jan, 2021?
(a) Contributing to Aatmnirbhar bharat
(b) Apna Bharat, Aatmnirbhar Bharat
(c) Role of Indian diaspora in building new India
(d) Aao Aatmnirbhar Bane
(e) None of these

120. IFSCA (International Financial Services Centres) HQ is located in_____
(a) Ahemdabad   (b) Delhi
(c) Bangalore   (d) Gandhinagar
(e) Chennai

121. Which Bank has introduced Fx 4u scheme which allows all its internet banking users to deal without hassle with forex transactions?
(a) Canara Bank
(b) UCO Bank
(c) Punjab & Sindh Bank
(d) Bank of India
(e) State Bank Of India

122. Signature visa debit card launched by which bank?
(a) Bank of Maharashtra
(b) Punjab & Sind Bank
(c) Punjab National Bank
(d) Syndicate Bank
(e) Bank of India.

123. Which of the following bank has recently launched a digital banking mobile application called "iMobile PAY?
(a) SBI   (b) PNB
(c) HDFC   (d) ICICI
(e) None of these

124. Sri Guru Ram Das Jee International Airport is located at—
(a) Ajmer   (b) Amritsar
(c) Kanpur   (d) Chennai
(e) Gorakhpur

125. What is the monthly income limit to be eligible for PM Shram Yogi Mandhan Yojna?
(a) 20,000   (b) 25,000
(c) 15,000   (d) 10,000
(e) 30,000

126. which ministry has launched Sahakar Pragya initiative by the National Cooperative Development Corporation (NCDC)?
(a) Ministry of agriculture and farmers
(b) Ministry of law and justice
(c) Ministry of planning
(d) Ministry of Electronics and Information Technology
(e) Ministry of finance

127. Who will come under the Pradhan Mantri Shram Yogi Maandhan Yojana (PM-SYM)?
(a) People age between (18 to 45) years
(b) People above the age of 45 years
(c) None of these
(d) People working in organized sectors
(e) People work in unorganized sectors

128. Which of these festivals is a harvest festival of the state of Tamil Nadu?
(a) Bihu   (b) Gudipadwa
(c) Onam   (d) Pongal
(e) None of these

129. Which among the following is true regarding the Bankers' Cheque?
(a) Bankers' Cheques are issued by a bank to the individual.
(b) The fund is withdrawn directly from the account of the bank.
(c) The fund is payable within the same city in which it has been issued.
(d) All (a), (b), (c)
(e) Only (a) and (b)

130. Which country will develop the world's first Wooden Satellite by 2023?
(a) China   (b) USA
(c) India   (d) Japan
(e) USA

131. What is the age range (in years) of beneficiary under Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY)?
(a) 15-25   (b) 20-35
(c) 20-30   (d) 15-35
(e) 20-40

132. Who chaired the International jury of 50th international film festival of India?
(a) Robin campillo   (b) John Bailey
(c) Jhang Yang   (d) PT Rovert
(e) None of these

133. In January 2021, world's largest floating solar project, is to be constructed in which of the following Indian state/UTs?
(a) Gujarat   (b) Puducherry
(c) Lakshadweep   (d) Madhya Pradesh
(e) West Bengal

134. Which rate is known as overnight loan rate?
(a) Rapo rate   (b) Reverse Repo rate
(c) Bank rate   (d) CRR
(e) Marginal standing Facility rate

135. What is Neo Banking?
(a) Not part of online banking
(b) Part of commercial banking
(c) Only for users under 40 years age
(d) 100 % digital banking
(e) Part of cooperative banking

136. Which city hosted Australia open 2020?
(a) Sydney   (b) Melbourne
(c) Canberra   (d) Perth
(e) None of these

137. NBFCs in India are companies that are registered under which of the following Act?
(a) SEBI Act 2002
(b) Government of India act 1935
(c) Companies act 2013
(d) RBI act 1934
(e) None of these

138. Where is Khelo India Winter games 2nd edition held?
(a) Ladakh   (b) Gulmarg
(c) Srinagar   (d) Himachal
(e) Anantnag

139. Book, "Trust Exercise" is written by———
(a) Susan Choi   (b) Chetan bhagat
(c) Rabinder singh   (d) Amish Tirpathi
(e) William Faulkner

140. OTT like Netflix etc. Comes under which ministry?
(a) Ministry of Information and Broadcasting
(b) Ministry of science and Technolog
(c) Ministry of culture
(d) Ministry of electronics and information
(e) None of these

141. "Lockdown Liaisons: Leaving and other stories" Book is written by——
(a) Amish tripathi   (b) Sobhaa De
(c) Chetan bhagat   (d) Ruskin bond
(e) Arundhati Roy

142. Which country topped in terms of the "Total" inflow of new migrants to OECD countries during the year 2018?
(a) Japan   (b) India
(c) China   (d) New York
(e) London

143. The Food Safety and standards authority of india has capped the amount of trans fatty acids (TFA) in oils and fats to how much percent for 2021?
(a) 2   (b) 5
(c) 4   (d) 6
(e) 3

144. Which of the following municipal corporations in India has signed an MoU with UNDP to create India's first social impact bond?
(a) Rourkela   (b) Pimpri chinchwad
(c) Lucknow   (d) Jaipur
(e) Kanpur

145. From which country most highly educated persons migrate to The Organisation for Economic Co-operation and Development (OECD) countries?
(a) India   (b) Singapore
(c) Pakistan   (d) Brazil
(e) Malaysia

146. Largest LNG (Liquefied Natural Gas) Supplier for India is_____
(a) Iran   (b) Australia
(c) Singapore   (d) Qatar
(e) Russia

147. What is the name of Indian 67th Grandmaster?
(a) Raunak Sadhwani   (b) Prithu Gupta
(c) leon mendonca   (d) NR Visakh
(e) G. Akash

148. In Madhya Pradesh, The world's largest floating 600 MW solar energy project to be constructed at_____
(a) Indrasagar Dam   (b) Matatila Dam
(c) Tigra Dam   (d) Gandhisagar Dam
(e) Omkareshwar dam.

149. SBI has launched the rupay JCB card in association with a financial entity that has been based in which of the following countries?
(a) Singapore   (b) Brazil
(c) London   (d) Japan
(e) UAE

150. Indian-American who has been selected by the NASA in December 2020 among 18 astronauts to be trained for Nasa's Artemis moon landing programme is—
(a) Raja chari   (b) Karan kapoor
(c) V.K Reddy   (d) Atul singh
(e) Mohan Bhandari

151. Who won the ATP (Association of Tennis Professionals) tournament?
(a) Rafael Nadal   (b) Novak Djokovic
(c) Leander Pace   (d) Daniil Medvedev.
(e) Roger federar

152. DakPay will provide digital financial and assisted banking services, Using the DakPay app, the users will be able to facilitate services such as sending money, scanning QR codes and making payments for services and merchants digitally. It is launched by which bank?
(a) HDFC bank
(b) Indian post payment bank
(c) ICICI bank
(d) SBI bank
(e) None of these

153. Union Cabinet chaired by Shri Narendra Modi has given its approval for Atmanirbhar Bharat Rojgar Yojana (ABRY) to boost employment in formal sector and incentivize creation of new employment opportunities during the Covid recovery phase under Atmanirbhar Bharat Package. What is the amount (in crores) for the entire Scheme period i.e. 2020-2023?
(a) 22,810   (b) 18,530
(c) 22,000   (d) 15,000
(e) None of these

154. The 40th Indian Scientific Expedition to Antarctica was flagged off on January 05, 2021, from which of the following port?
(a) Chennai Port   (b) Visakhapatnam Port
(c) Mormugao Port   (d) Paradip Port
(e) Tuticorin Port

155. Department of Investment and public asset Management (DIPAM) signed an aggrement with which of the following organizations to get advisory services for asset monetization?
(a) OECD (Organisation for Economic Co-operation and Development)
(b) WTO (World Trade Organization)
(c) ADB (Asian Development Bank)
(d) IMF (International Monetary Fund)
(e) World Bank

Hints & Explanations

Sol. (1-5) :

Name : *A, B, C, D, E, F* and *G*

TV Channel : Big Magic, Star, Zee, Dangal, National, Zoom, Zing

1. *D* lives on an even floor and just above the one who likes the Zee channel.
2. *F* likes the National channel and lives on floor number 4. From sentence 1, we have two even floors.
3. Person *A* lives on the floor which is immediately above *D* and likes the Zing channel.
4. *B* lives on an even number floor and immediately above the *E*'s floor, *E* likes the Dangal channel.
5. *G* does not live on the bottommost and topmost floor. *G* does not like Zee and Zoom channel. (This statement eliminates the case 2).
6. There are three floors between the one who likes Zoom and the one who likes Star.
7. The one who likes the Zoom channel lives on floor number 2.

Floor	Name	TV Channel
7	*A*	Zing
6	*D*	Star
5	*C*	Zee
4	*F*	National
3	*G*	Big Magic
2	*B*	Zoom
1	*E*	Dangal

1. **(c)** 5th Floor - *C* - Zee.
2. **(d)** The one who likes Star.
3. **(b)** Two
4. **(a)** 7th.
5. **(a)** *F.*
6. **(d)** Colours *T, U, V, W, X, Y* and *Z.*
    To be chosen : 5
    Condition :
    *   If *T* is chosen, *X* cannot be chosen $\Rightarrow T - X$ not together.
    *   If *U* is chosen, *Y* must also be chosen $\Rightarrow U - Y$ together.
    *   If *V* is chosen, *X* must also be chosen $\Rightarrow V - X$ together.
        Let's explore all individual options :
    A) *T, U, V, X, Y* $\Rightarrow$ This is not valid as it violates 1st condition.
    B) *T, U, V, Y, Z* $\Rightarrow$ This is not valid as *V* requires *X*, which can't be together with *T*.
    C) *T, W, X, Y, Z* $\Rightarrow$ This is not valid as it violates 1st condition.
    D) *U, V, W, Y, Z* $\Rightarrow$ This is not valid as it violates 3rd condition.

E) *U, V, X, Z, Y* $\Rightarrow$ This is valid as it doesn't violate any condition.
    Hence answer is *U, V, X, Z, Y.*

7. **(a)** If *V* is chosen :
    Then *X* has to be there but if *X* has to be there then *T* cannot be there.
    $\Rightarrow$ *T* is not chosen.

8. **(d)** Given : 2nd colour was originally chosen :
    A. *T* replaces *V* $\Rightarrow$ If *V* was chosen then *X* must be there which makes it invalid for *T* to be a replacement w/o violating any condition.
    B. *U* repalces *Y* $\Rightarrow$ *U* and *Y* have to be together $\Rightarrow$ This violates 2nd condition.
    C. *V* replaces *X* $\Rightarrow$ *V* and *X* have to be together $\Rightarrow$ This violates 3rd condition.
    D. *W* replaces *Y* $\Rightarrow$ *U* and *Y* have to be together $\Rightarrow$ This violates 2nd condition.
    E. *Z* replaces *W* $\Rightarrow$ There is no condition regarding colour *Z* and *W*. So, this doesn't violate any condition. Hence *Z* replaces *W* is the answer.

9. **(a)** Option (a) is a valid assumption. The company is trying out 10 minute meditation prior to work since it feels that it can help employees achieve peace of mind at the workplace.
    Option (b) is invalid. If the company feels that employees resist mental health practices at the workplace and consider it an intrusion on their freedom, it will not implement them. Also, it is not related to our question which is the correlation between meditation and peace of mind.
    Option (c) is invalid. Employees may or may not be meditating at home but the company feels they have to implement it at the workplace in order to ensure peace of mind at the workplace. As such, the private life of employees is beyond the scope of our passage.
    Option (d) is not related to our question which is the correlation between meditation and peace of mind. It is about tiredness from work, which is beyond the scope of our passage.
    Option (5) is invalid. As such, the private life of employees and their sleep is beyond the scope of our passage and not the main problem here.
    So, only option (a) is a valid assumption.

10. **(b)** The passage above tells us about the popularity of YouTube and its history as well. From the last line of the passage, we can assume that YouTube is a platform where 'people' can upload videos about a variety of things.
    Hence, assumption I is implicit.
    The infromation provided by the passage is not sufficient enough for us to assume that YouTube is a subsidiary of Google.
   Hence, assumption II is not implicit.

The third option is not an assumption as it is a restatement of the fact which is already mentioned in the second line of the passage.

Hence, it cannot be an implicit assumption.

Sol. (11-12) :

Now draw a family tree using the following notations :

Symbol in Diagram	Meaning
⬭	Female
▭	Male
═══	Married Couple
───	Siblings
│	Difference of A generation

$F \& G$ means F is daughter of G.

$G \beta E$ means G is husband of E.

$E \& H$ means E is daughter of H.

$H \Omega B$ means H is wife of B.

$B + D$ means B is father of D.

$D \beta C$ means D is husband of C.

$C \$ A$ means C is mother of A.
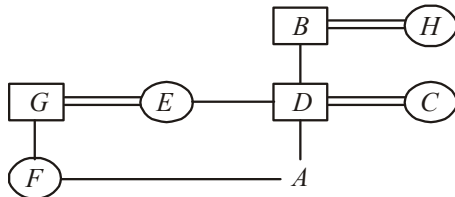
11. (e) So, A is either nephew or niece of E. Hence, cannot be determined.

12. (d) Since G is brother-in-law of D, who is uncle of F.

Hence, Brother-in-law, uncle is the correct answer.

13. (a) Option (a) is the correct answer. It can be concluded from the given premise that the increase in the level of pollution in the city makes the people aware to buy something which can dampen its effect so people are buying air purifiers. Also, air pollution in Delhi or any city will naturally have some impact on its neighbouring areas.

Option (b) is invalid as the passage does not compare the quality of indoor and outdoor air.

Option (c) is eliminated because no option of the government is mentioned in the above passage.

Option (d) is eliminated because the number or percentage of sales of air purifiers is not mentioned in the passage.

14. (e) Rohit should take both course of actions as *ABC* components are use for medical purposes. So, it must be only allowed to used by pharmaceutical companies.

Also, publishing an order to prohibit the use of the *ABC* component in alcohol will give a sense of fear to those, who use it illegally.

Hence, both I and II follow.

15. (b) The problem is whether proposal to suspend Insolvency and Bankruptcy Code (IBC).

Proceedings is a right step or not.

Argument I is strong. Clearly, a lot of companies will be facing Economic stress and subdued business due to the COVID scenario, and will be unable to pay their debt obligations. The move will prevent such businesses from being dragged into IBC proceedings.

Argument II is not strong. The Government is not writing off debts of these borrowers to kickstart a bad credit culture. It is only suspending IBC proceedings by 6-18 months. The borrowers are still liable to pay their debt obligations.

Argument III is strong. Suspending IBC will adversely affect the ease of loan recovery of banks and increase the stress on the banking system as the recovery will have to wait until the suspension is revoked.

Hence, only arguments I and III are strong.

16. (d) The passage above discusses the process of desertification. It is becoming a huge problem which is being faced all around the globe.

We need to find options that can be a possible reason for desertification.

The first option talks about animal grazing which can be one of the major reasons for desertification as there are too many animals that are overgrazing in certain spots which makes it difficult for the plants to grow back, which hurts the biome and makes it lose its former green glory.

The second option discusses urbanization and its ill effects upon plants. This is a probable reason for the increasing desertification. Hence, it is also correct.

The third option is more of an effect than a cause of desertification. The lands turning infertile due to desertification are an effect and thus not the correct answer for the above question.

As the statements above mentioned that desertification is a type of land degradation in drylands in which biological productivity is lost due to natural processes or induced by human activities and both Option 1 and 2 are human activities which can cause desertifications. Hence, both 1 and 2 are correct.

17. (d)

1. Rohit has more cars than Lalit and Gaurav.
2. Deepak has more Cars than Himanshu, who doesn't have fewer Cars than Rohit.

   Deepak > Himanshu > Rohit > Lalit / Gaurav

3. Deepak doesn't have the highest number of Cars.

   Mukul > Deepak > Himanshu > Rohit > Lalit/Gaurav.

   Above is the final arrangement.

   Hence, Rohit has the 4th highest number of Cars.

18. **(a)**
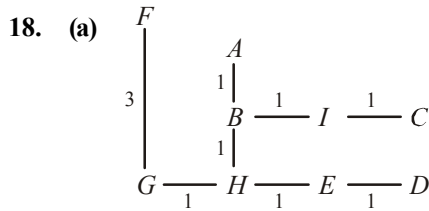
Hence, distance between *E* and *I* is 1 Km.

19. **(c)** Step I. The digits are arranged in ascending order from left to right within the number.

Step II. The middle digit is subtracted from the product of first and last digit.

Step III : Taking the pair from left side, first digits of both number is used to make first number and second digits of both number is used to make second number and so on.

Step IV. The digits of each number is added.

Step V. The sum of digits of the pairs from left end is divided by 2.

Step VI. Numbers are arranged in ascending order from left to right.

Input : 436 347 553 552 782 654 153 635 634 158

Step I : 346 347 355 255 278 456 135 356 346 156

Step II : 14 17 10 05 09 19 02 13 14 03

Step III : 11 47 10 05 01 99 01 23 10 43

Step IV : 02 11 01 05 01 18 01 05 01 07

Step V : 2 3 5 3 4

Step VI : 2 3 3 4 5

Step VI is the last step.

Hence, the fourth number to the left of third number from right end in step II is '05'.

20. **(d)** The 5th number from right end in step III = 99

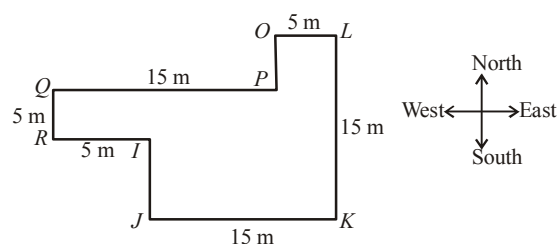The 2nd number from left end in step V = 3

Sum = 99 + 3 = 102

Hence, '102' is the sum of 5th number from right end in step III and 2nd number from left end in step V.

21. **(e)** Hence, '02 11 01 05 01 18 01 05 01 07' is the step IV of the given input.

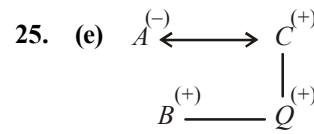**22.** **(a)** Step III : 11 47 **10** 05 01 99 01 23 10 43

Hence, six number are to the right of 3rd number from left end in step III.

23. **(d)**

Hence point *Q* is in North-west of point *K*.

24. **(c)** First point is in west of second point except in '*Q* – *J*'. Hence, '*Q*–*J*' does not belong to the group.

25. **(e)**

Statement I. *G* is the nephew of *Q*. *B* is married to *D*.

Inference : *G* is son of *B*, but we do not get information about *R*, so this statement is not sufficient.

Statement II : *T* is the sister-in-law of *D*, *D* is the wife of *B*.

Inference : *T* is the wife of *Q*, but no info of *R*, hence this is also not sufficient.

Statement III : *R* is the niece of *B*. *B* is the only sibling of *Q*. This statement alone gives us the information that *R* is the daughter of *Q* and hence granddaughter of *C*, therefore statement alone is sufficient to answer the question.

26. **(d)** **From statement I and II, we get :**

In these two statements, we can see that only 'work' is common and we did not get code for 'hard'. Hence, these two statements are not sufficient to answer the question.

From statements II and III, we get :

In these two statements, we get nothing common. Hence, these statements are not sufficient to answer the question.

From statements I and III, we get :

In these two statements, we can se that 'He' and 'very' are common but still we will not get the code for 'hard'. Hence these two statements are not sufficient to answer the question.

From statements I, II and III, we get :

'work' → li (from statements I and II)

He/Very → na/ha (From statements I and III)

Hence, the code for 'hard' is 'ti'.

Hence all three are necessary and sufficient to answer the question.

27. **(a)** **Statement I.** Reema correctly remembers that her brother's birthday is before fifteenth April but after twelfth April.

According to Reema, her brother's birthday → 13th or 14th April.

Statement II. Reema's father correctly remembers that his son's birthday is before 17th April but after 9th April.

According to Reema's father, his son's birthday → 10th, 11th, 12th, 13th, 14th, 15th or 16th April.

Statement III: Reema's mother correctly remembers that Reema's brother's birthday is before 16th April but after 19th April.

According to Reema's mother, Reema's brother's birthday → 14th or 15th April.

From statement I and III, we get :

Reema's brother's birthday is on 14th April.

Hence, only statement I and III are sufficient to answer the question. So the correct answer is option A.

28. (c) From the common explanation SOUND will be coded as 35653.

ii. If the code of two adjacent letters is such that the code of preceding letter is one less than that of succeeding letter then change the code of succeeding letter as "*". For example if 6349 is a code then according to this rule new code will be 63*9.

Here condition ii is applicable, thus new code will be 35*53, which matches the given code, thus "SOUND" will come in the place of blank.

Hence option (c) is correct.

29. (d) Only II i.e. CRAWL is coded incorrectly, the correct code should be #2#63.

Hence, option (d) is correct.

30. (b) The given code starts with #, which clearly indicates that the first digit should also be 2.

This make options (a) (TRIBAL) and (c) (FISCAL) invalid, because they start with 4.

Option (d) is also invalid because here code for 'L' is 3 whereas in the given code, code for second digit is also 2.

Code for CREATE after following condition i and ii is #2*243.

Hence, option (b) is correct.

31. (b) Where $(A_1, A_2...)$ for Akhil and $(R_1, R_2, ...)$ for Rakesh
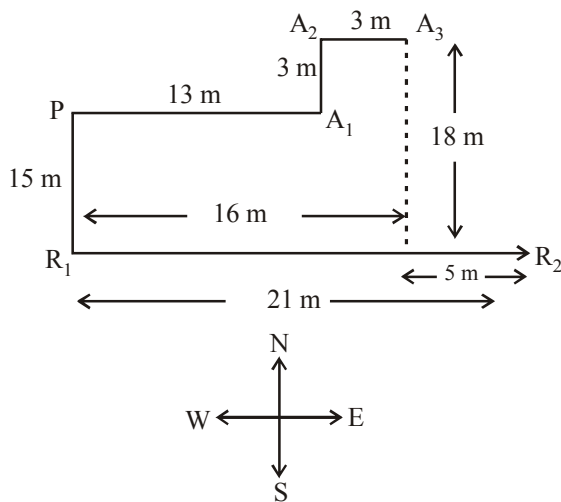
The required distance is 5 m.

Sol. (32-36) :

Boxes of books : History, Mathematics, Science, Geography, English, Sanskrit, Polity and Civics

1. Box of Mathematics is at topmost position whereas box of Polity is kept at bottommost position.

Box Number	Box of Books (Case 1)
1	Mathematics
2	
3	
4	
5	
6	
7	
8	Polity

2. There are three boxes between box of Mathematics and box of Geography.

Box Number	Box of Books (Case 1)
1	Mathematics
2	
3	
4	
5	Geography
6	
7	
8	Polity

3. Box of Science is immediately below box of Mathematics.

Box Number	Box of Books (Case 1)
1	Mathematics
2	Science
3	
4	
5	Geography
6	
7	
8	Polity

4. There are two boxes between box of History and box of Civics.

5. Box of Civics is immediately below box of Geography.

Box Number	Box of Books (Case 1)
1	Mathematics
2	Science
3	History
4	
5	Geography
6	Civics
7	
8	Polity

6. There is only one box between box of Geography and box of English. (Box of Sanskrit will be at remaining position)

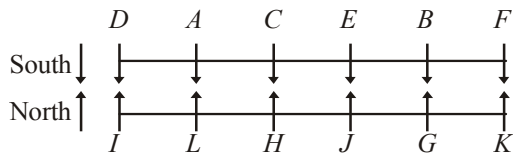| Box Number	Box of Books (Case 1)
1	Mathematics
2	Science
3	History
4	Sanskrit
5	Geography
6	Civics
7	English
8	Polity

32. (b) Hence, box of Sanskrit book is immediately above box of Geography book.

33. **(a)** Hence, the box of Sanskrit book is numbered 4.
34. **(c)** Hence, box of Civics book is exactly 3 between box of Geography book and box of English book.
35. **(e)** Hence, 3 boxes are kept between box of Science and Civics books.
36. **(d)** Hence, the box of English book is kept at the second last position.

Sol. (37-38) :
Persons : Row 1 : A, B, C, D, E and F are seated facing South.
Row 2 : G, H, I, J, K and L are seated facing North.
1. L sits third to the left of G. G does not sit at the extreme end of the row.
2.   The one who faces L is an immediate neighbour of C.
3.   Two person sits between C and F.
4. D sits to the immediate right of A.
5. D is not an immediate neighbour of C.
6. I faces D.
7. E does not face G.
8.   Neither H nor K faces E.
9. K does not sit in front of C.

```
        D     A     C     E     B     F
South ↓ |-----|-----|-----|-----|-----|
North ↑ |-----|-----|-----|-----|-----|
        I     L     H     J     G     K
```

37. **(e)** A is second to the right of E.
38. **(e)** Hence, three persons are sitting between K and L.

Sol. (39-42) :
1. G faces North, only three people sits to the left of G.
2.   Only two people sit between G and S.
3. H sits third to the right of K. K is neither an immediate neighbour of G nor S.
4. K does not sit at any of the extreme end of the line.
      Case - 1

```
|---|---|---|---|---|---|---|
    S       H   G       K
```

5.   The only neighbour of F faces north. F is not an immediate neighbour of K. A is sitting second to the left of F. A faces the same direction as K.
      Case - 2

```
|---|---|---|---|---|---|---|
    K       G   H   A   S   F
```
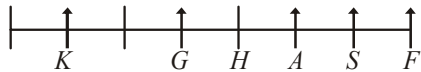
Here case-1 gets cancelled because there is no place left for A because A is sitting second to the left of F and F will face north direction and K is already sittign second to the left of F.
6.   The person sitting at extreme ends facing opposite directions.
7. D faces the same direction as F. H faces south.
      The final arrangement is given below :

```
|---|---|---|---|---|---|---|
    J   K   D   G   H   A   S   F
```
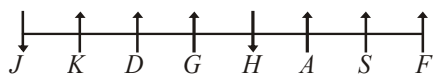
39. **(d)** Six people are facing north direction.

40. **(e)** We can see that in all four combinations i.e. (J, D) (G, K) (S, H) (A, F) there are gap of one person, but in (D, A) there are gap of two person. So our answer is (D, A).
Hence, the correct answer is (D, A).

41. **(b)** We can clearly see that there are only two people facing south.

42. **(e)** The correct answer is H.

43. **(b)** PRs A, B and C.
SMEs D, E, F, G and H
Team : 2 PRs + 3 SMEs
Conditions : Either of following will go -
1. A or C 2. E or C
3. D or G 4. D or F
If C is sent to the new office $\Rightarrow$ A and E cannot be there
$\Rightarrow$ 2 PRs = B, C = 3 SMEs = 3 out of D, F, G and H.
Since F and G cannot go with D. D can't go
$\Rightarrow$ 3 SMEs = F, G and H.
Hence, if C goes then D can't go.

44. **(a)** PRs A, B and C.
SMEs D, E, F, G and H
Team : 2 PRs + 3 SMEs
Conditions : Either of following will go -
1. A or C 2. E or C
3. D or G 4. D or F
If C and F are to move.
C is there $\Rightarrow$ A and E can't be there.
F is there $\Rightarrow$ D can't be there. There have to be 2 PRs which would be B and C.
There have to be 3 SMEs which would be F, G and H.
$\Rightarrow$ Combination(s) possible = $BCFGH$
$\Rightarrow$ Only 1 combination is possible.

45. **(b)** PRs A, B and C.
SMEs D, E, F, G and H
Team : 2 PRs + 3 SMEs
Conditions : Either of following will go -
1. A or C 2. E or C
3. D or G 4. D or F
If A is to be in team then C can't be in the team. Since there have to be 2 book-keepers
$\Rightarrow$ B would be there.
Let's examine given options on the basis of given condition :
A. $ABDEH \Rightarrow$ It doesn't violate any condition. Hence, it's possible.
B. $ABDGH \Rightarrow$ Since D and G can't be together. Hence, this combination isn't possible.
C. $ABEFH \Rightarrow$ It doesn't violate any condition. Hence, it's possible.
D. $ABEGH \Rightarrow$ It doesn't violate any condition. Hence, it's possible.
Hence, $ABDGH$ cannot be a possible working unit.

46. **(b)** **For Stock Market P :**
Investment by Male + Investment by Female = ₹4500
Investment by Male – Investment by Female
= –₹900 or

Investment by Female – Investment by Male = ₹900

Then,

$\Rightarrow$ 2 × Investment by Female = ₹5400

∴ Investment of Female will be = ₹2700

and investment of Male will be = ₹2700 – ₹900

$\qquad\qquad\qquad\qquad = $ ₹1800 ...(1)

For Stock Market Q :

Investment by Male + Investment by Female = ₹8200

Investment by Male – Investment by Female = ₹1000

Then,

$\Rightarrow$ 2 × Investment by Male = 9200

∴ Investment of Male will be

= 9200 ÷ 2 = ₹4600 ...(2)

For Stock Market R :

Investment by Male + Investment by Female = ₹6500

Investment by Male – Investment by Female = ₹500

Then,

$\Rightarrow$ 2 × Investment by Male = 7000

∴ Investment of Male will be = 7000 ÷ 2

= ₹3500 ...(3)

For Stock Market S :

Investment by Male + Investment by Female = ₹3700

Investment by Male – Investment by Female = ₹–300

or

Investment by Female – Investment by Male = ₹300

Then,

$\Rightarrow$ 2 × Investment by Female = 4000

∴ Investment of Female will be = ₹2000 ...(4)

For Stock Market T :

Investment by Male + Investment by Female = ₹7100

Investment by Male – Investment by Female = ₹1100

Then,

$\Rightarrow$ 2 × Investment by Male = 8200

∴ Investment of Male will be = 8200 ÷ 2 = ₹4100

...(5)

∴ From equation (2), (3), (1), (4) and (5) we can calculate total investment of Male

= 1800 + 4600 + 3500 + 1700 + 4100

= 6400 + 5200 + 4100

= 11600 + 4100 = ₹15700

∴ Average investment by Male in all schemes will be

$= \dfrac{15700}{5} = $ ₹3140

47. (e) Two such stock market i.e. P and S exist where Male invests less than Female because (Male – Female) is negative there,

For Stock Market P :

Investment by Male + Investment by Female = ₹4500

Investment by Male – Investment by Female = ₹–900

or

Investment by Female – Investment by Male = ₹900

Then,

$\Rightarrow$ 2 × Investment by Female = ₹5400

∴ Investment of Female will be = ₹2700

Profit of Female = 5% of ₹2700

$\Rightarrow 5 \times \dfrac{2700}{100} = 5 \times 27 = 135$ ...(1)

For Stock Market S :

Investment by Male + Investment by Female = ₹3700

Investment by Male – Investment by Female = ₹–300

or

Investment by Female – Investment by Male = ₹300

Then,

$\Rightarrow$ 2 × Investment by Female = ₹4000

∴ Investment of Female will be = ₹2000

Profit of Female = 5% of 2000

$\Rightarrow 5 \times \dfrac{2000}{100} = 5 \times 20 = 100$ ...(2)

∴ Total profit = 135 + 100 = ₹235.

48. (a) **For Stock Market T :**

New profit percentage of Male = 20%

New profit percentage of Female = 19%

Investment of Male + Investment of Female = ₹7100

Investment of Male – Investment of Female = ₹1100

Then,

$\Rightarrow$ 2 × Investment of Male = ₹8200

∴ Investment of Male will be

$= \dfrac{8200}{2} = $ ₹4100

Profit of Male = 20% of 4100

$\Rightarrow 20 \times \dfrac{4100}{100} = 20 \times 410 = $ ₹820 ...(1)

And investment of Female will be

= 4100 – 1100 = ₹3000

Profit of Female = 19% of 3000

$\Rightarrow 19 \times \dfrac{3000}{100} = 19 \times 30 = $ ₹570 ...(2)

∴ Total profit of (Male + Female) = 820 + 570 = ₹1390.

49. (d) **For Stock Market P :**

Investment by Male + Investment by Female = ₹4500

Investment by Male – Investment by Female = ₹–900

or

Investment by Female – Investment by Male = ₹900

Then,

$\Rightarrow$ 2 × Investment by Female = ₹5400

∴ Investment of Female will be = ₹2700

Profit of Female = 5% of ₹2700

$\Rightarrow 5 \times \dfrac{2700}{100} = 5 \times 27 = 135$ ...(1)

and investment of Male will be

= 2700 – 900 = ₹1800 ...(2)

For Stock Market Q :

Investment by Male + Investment by Female = ₹8200

Investment by Male – Investment by Female = ₹1000

Then,

$\Rightarrow$ 2 × Investment by Male = ₹9200

∴ Investment of Male will be

$= 9200 \div 2 = ₹4600$ ...(3)
and investment of Female will be
$= 4600 - 1000 = ₹3600$
Profit of Female = 11% of ₹3600

$$\Rightarrow 11 \times \frac{3600}{100} = 11 \times 36 = ₹396 \qquad ...(4)$$

For Stock Market R :
Investment by Male + Investment by Female = ₹6500
Investment by Male – Investment by Female = ₹500
Then,
$\Rightarrow$ 2 × Investment by Male = 7000
$\therefore$ Investment of Male will be = $7000 \div 2$
$= ₹3500$ ...(5)
and Investment of Female will be = $3500 - 500 = ₹3000$
Profit of Female = 7% of ₹3000

$$\Rightarrow 7 \times \frac{3000}{100} = 7 \times 30 = ₹210 \qquad ...(6)$$

For Stock Market S :
Investment by Male + Investment by Female = ₹3700
Investment by Male – Investment by Female = ₹–300
or
Investment by Female – Investment by Male = ₹300
Then,
$\Rightarrow$ 2 × Investment by Female = ₹4000
$\therefore$ Investment of Female will be = ₹2000
Profit of Female = 5% of 2000

$$\Rightarrow 5 \times \frac{2000}{100} = 5 \times 20 = ₹100 \qquad ...(7)$$

And investment of Male will be
$= 2000 - 300 = ₹1700$ ...(8)

For Stock Market T :
Investment by Male + Investment by Female = ₹7100
Investment by Male – Investment by Female = ₹1100
Then,
$\Rightarrow$ 2 × Investment by Male = 8200
$\therefore$ Investment of Male will be = $8200 \div 2 = ₹4100$ ...(9)
And investment of Female will be
$= 4100 - 1100 = ₹3000$
Profit of Female = 20% of 3000

$$\Rightarrow 20 \times \frac{3000}{100} = 20 \times 30 = 600 \qquad ...(10)$$

$\therefore$ From equation (2), (3), (5), (8) and (9) we can calculate total investment of Male
$= 1800 + 4600 + 3500 + 1700 + 4100$
$= 6400 + 5200 + 4100$
$= 11600 + 4100 = ₹15700$
And from equation (1), (4), (6), (7) and (10) we can calculate profit of Female
$= 135 + 396 + 210 + 100 + 600$
$= 841 + 600 = ₹1441$
$\therefore$ Required difference = $15700 - 1441 = ₹14259$.

50. (b) Investment of Male in stock market R + Investment of Female in Stock Market R = ₹6500
Investment of Male in Stock Market R – Investment

of Female in Stock Market R = ₹500
Therefore,
2 × Investment of M in Stock Market R
$= 6500 + 500 = ₹7000$
$\therefore$ Investment of Male will be = $7000 \div 2 = ₹3500$
and investment of Female will be = $3500 - 500 = ₹3000$
Profit of Male in Stock Market R = 9% of 3500

$$= 3500 \times \frac{9}{100} = 35 \times 9 = ₹315$$

Profit of Female in Stock Market R = 7% of 3000

$$\Rightarrow 3000 \times \frac{7}{100} = 30 \times 7 = ₹210$$

$\therefore$ We need to find out that 315 is how much percentage more than 210

$$= 315 - 210 \times \frac{100}{210} = 105 \times \frac{100}{210}$$

$$= \frac{1050}{21} = \frac{350}{7} = 50\%.$$

$\therefore$ Profit of Male in Stock Market R is 50% more than profit of Female in Stock Market R.

51. (b) Let the present ages of Amit, Mukul, Vimal and Deepak be P, Q, R and S respectively.
According to the given information,
$R - S = 4$ ...(1)

$$\frac{Q+S}{2} = 30 \Rightarrow Q + S = 60 \quad ...(2)$$

$P - Q = 48$ ...(3)
$Q - S = 36$ ...(4)
Adding equation (2) and (4)
$2Q = 96 \Rightarrow Q = 48$
Putting the value of Q in Equation (3) we get, $P = 96$
Now,

$$\frac{P+Q}{2} = \frac{96+48}{2} = 72$$

Hence, the average of the present ages of Amit and Mukul is 72 years.
Quantity II :
According to the given information
$\because A : B : C = 18 : 14 : 13$
$\therefore$ Let the ages be $18x$, $14x$ and $13x$ respectively.
$\because A - C = 25$
$\Rightarrow 18x - 13x = 25 \Rightarrow 5x = 25 \Rightarrow x = 5$
Hence, the present ages of A, B and C are
$18x = 18 \times 5 = 90$ years,
$14x = 14 \times 5 = 70$ years, and
$13x = 13 \times 5 = 65$ years respectively.

$$\text{Average} = \frac{90+70+65}{3} = 75 \text{ years}$$

Therefore, Quantity II > Quantity I > Quantity III
So, option (b) is correct.

52. (a) **Quantity I :**
Age of grand daughter $= 19 - 9 = 10$ years
Age of Ankur $= 10 \times 6 + 11 = 71$ years
Quantity II :
Required average

$$= \frac{12 \times 32 - 2 \times 27}{10} = \frac{384 - 54}{10} = 33 \text{ years}$$

$\therefore$ Quantity I > Quantity II.

53. (a) Number of Freestyle and Endeavour Cars sold together

$$= 39\% \text{ of } 12500 = \frac{39}{100} \times 12500 = 4875$$

Number of Mustang and Aspire Cars manufactured together

$$= 34\% \text{ of } 17500 = \frac{34}{100} \times 17500 = 5950$$

Difference $= 1075$
So, option (a) is correct.

54. (c) Figo cars sold by Ford $= \frac{18}{100} \times 12500 = 2250$

Aspire Cars manufactured by Ford

$$= \frac{23}{100} \times 17500 = 4025$$

Difference $= 1775$

Percentage change $= \frac{1775}{4025} \times 100 = 44.09\%$

So, option (c) is correct.

55. (b) Endeavour Cars sold $= \frac{32}{100} \times 12500 = 4000$

Figo cars manufactured $= \frac{34}{100} \times 17500 = 5950$

Ratio $= \frac{4000}{5950} = 80 : 119$

So, option (b) is correct.

56. (d) Freestyle, Aspire and Endeavour cars sold

$$= 66\% \text{ of } 12500 = \frac{66}{100} \times 12500 = 8250$$

$$X = \frac{8250}{3} = 2750$$

Mustang and Freestyle cars manufactured

$$= 30\% \text{ of } 17500 = \frac{30}{100} \times 17500 = 5250$$

$$Y = \frac{5250}{2} = 2625$$

Y in terms of $X = \frac{2625}{2750} \times 100 = 95.45\%$.

So, option (d) is correct.

57. (a) Endeavour cars manufactured in 2015

$$= \frac{13}{100} \times 17500 = 2275$$

Endeavour cars manufactured in 2016
$= 2275 + 225 = 2500$
Aspire cars manufactured in 2015

$$= \frac{23}{100} \times 17500 = 4025$$

Aspire cars manufactured in 2019 $= 4025 + 175 = 4200$

Required ratio $= \frac{2500}{4200} = 25 : 42$.

So, option (a) is correct.

58. (d) Let there be $1000y$ regular customer literate females, then
$0.75 \times 0.8 \times 0.75 \times 1000y = 1008$
$\therefore y = 2.24$.
So, regular customer literate female $= 2240$
Now, total regular customer literate

$$= \frac{8 + 7}{7} \times 2240 = 4800$$

We have,
50% of total regular customer (literate + illiterate)
$= 4800$
So, total regular customer (literate + illiterate)
$= 4800 \times 2 = 9600$
Then we have, 64% of total customer = Number of regular customer (literate + illiterate) $= 9600$

Total customer $= \frac{100}{64} \times 9600 = 15000$

So, option (d) is correct.

59. (c) Number of literate regular customers

$$= \frac{5}{2} \times 15840 = 39600$$

Number of regular customer (literate + illiterate)

$$= \frac{100}{40} \times 39600$$

Average customer of Franchses $= \frac{165000}{110} = 1500$.

So, option (c) is correct.

60. (b) Here we have to take the least possible customers of category F2 and the highest possible customers of category F5 Franchises.
In 2016, least possible customers of category F2 franchises $= 127 \times 200$
Highest possible customers of category F5 franchises $= 80 \times 5000$

The percentage $= \frac{127 \times 200}{80 \times 5000} \times 100 = 6.35\%$.

61. (c) To find the least possible customers of F4 in 2009, we must start with least possible customers of F4 category franchises in 2019.
So,
Total population of F4 type Franchises in 2019
$= 1001 \times 129$
Since, it is less than what the customers was in 2009, the customers in 2009 must be in the form
$= 1001 \times 129 + y$, where $y = 1, 2, 3$, and so on.
But we have to tell the minimum possible customers, we must choose $y = ?$
So, total customers in 2009 $= 1001 \times 129 + 1 = 129130$
Average customers

$$= \frac{129130}{110} = 1173.9 = 1174 \text{ (approx.)}$$

62. (c) Let the customers of any Franchise of category F1 be $800y$, then
Number of regular customers (lit. + ill.) = 60% of $800y$
$= 480y$
Number of literate regular customers
$= 60\%$ of $480y = 288y$

Number of literate females $= \dfrac{3}{8} \times 288y = 108y$ ...(1)

Now, according to the condition, we have

$$800y < 200 \Rightarrow y < \frac{1}{4}$$

Therefore, we have from (1),
Number of literate females $= 108y < 27$ (max.)
To find the maximum number of employed women, it is possible that all are employed, so

Percentage $= \dfrac{\text{number of employed females}}{\text{all regualr customers}} \times 100$

$$= \frac{27y}{480y} \times 100 = 5.625\%.$$

So, less than 5.625% literate women among the regular customers are employed.

63. (d) Statement III :
The areas of three grounds are 312cm², 408 cm² and 552 cm².
The HCF of these three areas = 24
$\Rightarrow$ Number of similar rectangular blocks of minimum

area $= \dfrac{312}{24} + \dfrac{408}{24} + \dfrac{552}{24} = 13 + 17 + 23 = 53.$

There is no need of statement I and II as we can get the minimum area by determining the HCF of these areas.
$\therefore$ Statement III alone is sufficient to answer the question.

64. (b) **Considerting statement I :**
Black grapes cost ₹10/kg and green grapes cost ₹12/kg
$\Rightarrow$ This statement is not sufficient alone.
Considerting statement II :
Ratio of the mixture of black grapes and green grapes
$= 1 : 2$

$\Rightarrow$ This statement is not sufficient alone.
Considerting statement III :
The number of black grapes and green grapes are same.
$\Rightarrow$ This statement is not sufficient alone.
Considerting statement I and statement II together:
I.   Black grapes cost ₹10/kg and green grapes cost ₹12/kg
II.   Ratio of the mixture of black grapes and green grapes $= 1 : 2$
Let the average price be x

$$\Rightarrow \frac{1}{2} = \frac{12 - x}{x - 10}$$

$\Rightarrow x - 10 = 24 - 2x \Rightarrow 3x = 34$
$\Rightarrow$ Average $= ₹11.33$ kg
$\therefore$ Statement I and statement II together are sufficient to answer the question.

65. (b) Considering statement I :
H.C.F. of three numbers is 15.
$\therefore$ This statement is not sufficient alone.
Considering statement II :
The ratio of the three numbers is $2 \times 3 \times 4$.
$\therefore$ This statement is not sufficient alone.
Considering statement III :
The difference between the first two numbers is 15.
$\therefore$ This statement is not sufficient alone.
Considering statement I and statement II together :
Let the numbers be $2x, 3x$ and $4x$.
Since the H.C.F. of the numbers is 15.
$\therefore$ Numbers are $15 \times 2 = 30, 15 \times 3 = 45, 15 \times 4 = 60$
So, statement I and statement II together are sufficient to answer the question.

66. (d) Suppose the price of a ball ₹ x.

$\Rightarrow$ Number of balls $= \dfrac{37500}{x}$

Statement I :

$$(x + 30) \times \frac{37500}{x} = 37500 + 4500 \Rightarrow x = 250$$

$\Rightarrow$ Price of a ball $= ₹250$.
Statement II :
Ratio of number of balls and the cost of ball is 3 : 5.
Suppose the number of balls and the cost of a ball is $3a$ and $5a$ respectively.

$\Rightarrow 15a^2 = 37500$

$\Rightarrow a^2 = 2500 \Rightarrow a = 50.$

$\therefore$ Price of a ball $= ₹250$.
Statement III :

$$x \times \left(\frac{37500}{x} - 30 \right) = 37500 - 7500 \Rightarrow x = 250.$$

$\therefore$ Price of a ball $= ₹250$.
$\therefore$ Any of the statements alone is sufficient to answer the question.

67. **(c)** Pattern is
$3^3 + 2 = 29$
$4^3 + 3 = 67$
$5^3 + 4 = 129$
$6^3 + 5 = 221$
$7^3 + 6 = 349$
$8^3 + 7 = 519$
∴ Wrong term = **219**.

68. **(e)** Pattern is
$16 \times 2.5 = 40$
$40 \times 2.5 = \mathbf{100}$
$100 \times 2.5 = 250$
$250 \times 2.5 = 625$
$625 \times 2.5 = 1562.5$
So, 105 is wrong term.

69. **(d)** Pattern is
$\times 3 - 4, \times 6 - 9, \times 9 - 16, \times 12 - 25, \times 15 - 36 ..$
∴ Wrong term $= 2051 \times 15 - 36 = 30729.$
So, wrong term is 30730.

70. **(d)** When A and B together cover 600m distance, they meet and out of this A covers

$= \dfrac{12}{12+18} \times 600 = 240$ m.

B covers $(600 - 240) = 360$ m.
So they meet B covers 360 m.
When B covers 4320 meters, they would have met

$= \dfrac{4320}{360} = 12$ times.

71. **(c)** Distance travelled by Yogesh in 4 minutes

$= \dfrac{4}{60} \times 105 = 7$ km.

Distance travelled by Gaurav in 4 minutes

$= \dfrac{4}{60} \times 75 = 5$ km.

Hence Yogesh will have to travel a distance of 12 km before catching up with Gaurav.
Relative speed of Yogesh to that of Gaurav after taking U turn $= 105 - 75 = 30$ kmph
∴ Time taken by Yogesh after taking U turn of Meet

Gaurav $= \left(\dfrac{12}{30} \times 60\right) = 24$ min.

Total time taken by Yogesh to meet Gaurav $= (4 + 24)$ min. $= 28$ min.

72. **(b)** For the boat A, let the speed of the stream be $5x$ and the speed of the boat A be $7x$.
For the boat B, let the speed of the stream be $6y$ and the speed of the boat B be $8y$.
The speed of the stream will be the same.

∴ $5x = 6y$ or $x = \dfrac{6}{5}y$

Now, the required ratio of the speed of the boat A to that of the boat $B = 7x : 8y$

$\Rightarrow 7 \times \dfrac{6}{5}y : 8y$ [Putting x in terms of y]

∴ $\dfrac{21}{5}y : 4y = 21 : 20$

73. **(d)** Total number of students who visited
Goa $= 23 + 108 = 131$
Total No. of students $= 800$

	Boys	**Girls**
Delhi	82	92
Mumbai	100	92
Goa	108	23
Ajmer	101	115
Dehradun	41	46

74. **(c)** Total number of students who visited
Dehradun $= 46 + 41 = 87$
Number of girls who visited Delhi $= 92$
Percentage = (Total no. of students who visited Dehradun × 100) / no. of girls who visited Delhi
$= (87 \times 100)/92 = 95\%.$

75. **(c)** Average = (Total no. of boys who visited Delhi, Goa and Dehradun) / 3
$= (82 + 108 + 41)/3 = 77.$

76. **(d)** If 7 boys did not go to Ajmer, then no. of boys who went to Ajmer $= 101 - 7 = 94.$
No. of girls who went Goa $= 23$
Required percentage

$= \dfrac{23}{94} \times 100 = 24.46\% \simeq 24\%.$

77. **(a)** The curved surface area of a cylinder $= 2\pi rh$, where r is the radius, of a cylinder and h is the height of a cylider.
The volume of a conical container

$= \dfrac{1}{3}\pi R^2 H,$

where R is the radius of a conical container. H is the

height of a conical container and π is $\dfrac{22}{7}$

The slant height of a container

$= \sqrt{(\text{height}^2 + \text{radius}^2)}$

The volume of a conical container

$= \dfrac{1}{7} \times 4620 = 660$ m^3

The volume of a conical container

$= \dfrac{1}{3}\pi R^2 \times 10$

$\Rightarrow 660 = \dfrac{10}{3} \times \dfrac{22}{7} \times R^2$

$$\Rightarrow R^2 = \frac{660 \times 3 \times 7}{10 \times 22} \Rightarrow R^2 = 3 \times 3 \times 7$$

$$\Rightarrow R = \sqrt{3 \times 3 \times 7} = 3\sqrt{3} \text{ m}$$

The slant height of conical container

$$= \sqrt{(10)^2 - (3\sqrt{7})^{\frac{2}{3}}} = \sqrt{100 + 63} = \sqrt{163} \text{ m}$$

The slant height of a conical container is $\sqrt{163}$ m.

78. **(c)** The volume of cylinder $= \frac{22}{7} \times r^2 \times 30$

$$\Rightarrow 4620 = \frac{22}{7} r^2 \times 30$$

$$\Rightarrow r^2 = \frac{4620 \times 7}{30 \times 22} = 49$$

$$\Rightarrow r = \sqrt{49} = 7 \text{ m}$$

The curved surface area of a cylinder

$$= 2 \times \frac{22}{7} \times 7 \times 30 = 1320 \text{ m}^2$$

79. **(d)** The distance is travelled by him = 10 km
Reaching time = 50 minutes

$$\Rightarrow \frac{5}{6} \text{hours}$$

The volume of a cylinder = 4620 m³
The volume of a container

$$= \frac{1}{7} \times \text{ the volume of a cylinder}$$

And the height of a container = 10 m
Reduced time = 50 – 20 = 30 minutes

$$= \frac{30}{60} \text{ hours} = \frac{1}{2} \text{ hr.}$$

The speed when he went city $= \frac{10}{5/6} = 12$ km/hr.

And the speed during returning $= \frac{10}{1/2} = 20$ km/hr.

Increased speed = 20 – 15 = 5 km/hr.
Therefore his increased speed was 3 km/hr.

80. **(a)** Series : 85, 175, 355, 715, 1288
Pattern of the series is
85 × 2 + 5 = 355
355 × 2 + 5 = 715
715 × 2 + 5 = 1440
The wrong term in the series is 1288.
$N = 1288$

$$\Rightarrow \frac{N}{28} + 1 = \frac{1288}{28} + 1 = 47.$$

∴ 47 is a prime number.

81. **(c)** Refer to the first paragraph, the hint can be drawn from the lines; The Economic Survey for 2020-21 is an expansive attempt at reviewing the developments in the Indian economy during the current financial year and providing an outlook for its near-term prospects. Spread over 700 pages, the survey opts for a self-congratulatory tone while highlighting the policy achievements of the government in steering the economy through the treacherous shoals of "the most unfathomable global health emergency experienced in modern history".
Hence, **option (c)** is the right answer choice.

82. **(b)** Refer to the second paragraph, the hint can be drawn from the lines, There is no denying that the country appears to have not only flattened the curve but also, crucially, so far avoided a bruising second wave of infections seen in much of Europe and the U.S.
Hence, **option (b)** is the right answer choice.

83. **(e)** Refer to the second paragraph, the hint can be drawn from the lines, the survey's contention that India has turned the crisis into an opportunity to strengthen its long-term growth potential through 'seminal reforms' sounds off-key, especially given the ongoing farmers' agitation against the new farm laws as well as the plight of the struggling small and medium-scale industries and informal sectors.
Hence, **option (e)** is the right answer choice.

84. **(b)** Deleterious: causing harm or damage.
Inimical: tending to obstruct or harm.

85. **(c)** Refer to the first paragraph, the hint can be drawn from the lines, The new measures, which were announced today by Scotland's Rural Economy Secretary, Fergus Ewing are to be introduced following a recent consultation with the industry and will be brought into effect from 1 May 2021. They follow concerns from conservation organisations and recreational anglers about the possible ecological impacts of the harvesting of wild wrasse from around the UK coast for use as cleaner fish in Scottish salmon farms.
Hence, **option (c)** is the right answer choice.

86. **(d)** Refer to the first paragraph, the hint can be drawn from the lines, Under the new rules, wrasse fishers will have to meet certain criteria, show they have an appropriate relationship with an aquaculture business and have a proven track record to obtain a permit for harvesting wild wrasse.
Hence, **option (d)** is the right answer choice.

87. **(e)** Refer to the lines of first paragraph, the hint can be drawn from the lines, The move is expected to improve management of the fishery, provide clear instructions to all those involved, and secure better reporting of activity and data from fishers to Marine Scotland.
Hence, **option (e)** is the right answer choice.

88. **(a)** Refer to the second paragraph, the hint can be drawn from the lines,

These measures will support the sustainable growth of our valuable aquaculture industry while also maintaining the right balance across our economic, environmental and social responsibilities. "Mandatory measures for wild wrasse harvesting will help to maintain healthy stocks of this fish which is so important for treating and controlling lice in our salmon farms while improvements to the way we consider regulation of fish farms will ensure the impact from interactions with iconic wild salmon and sea trout is reduced.

Hence, **option (a)** is the right answer choice.

89. (d) Refer to the first paragraph, the hint can be drawn from the lines, The worsening water situation in India has been discussed very often and in great detail, but fresh warnings keep coming out from experts and various organisations. Water scarcity is not specific to India, but it has a special relevance to the country because its per capita availability is low and is falling.

Hence, **option (d)** is the right answer choice.

90. (e) Refer to the first paragraph, the hint can be drawn from the lines, According to the World Wide Fund for Nature (WWF)'s latest report, about 350 million people living in 100 cities of national importance across the world are at immediate risk of a water crisis, and all of them will face a severe crisis by 2050. The report concluded that "these cities face looming scenarios of water scarcity unless urgent action is taken to mitigate and adapt to climate change". Along with climate change, rising population is also a factor that will aggravate the crisis.

Hence, **option (e)** is the right answer choice.

91. (e) Refer to the second paragraph, the hint can be drawn from the lines, In most cases, the problem was not with the strategies and solutions but with their implementation. There is greater waywardness in the behaviour of the monsoon, groundwater resources have been depleting and conservation efforts are mostly inadequate. Each of these, and other problems, have to be handled in separate and specific ways, and every region and even locality will need its own solutions. That makes the solutions complex and difficult.

Hence, **option (e)** is the right answer choice.

92. (c) Waywardness: difficult to control or predict because of wilful or perverse behaviour.

Obstinate: (of an unwelcome situation) very difficult to change or overcome.

- Stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Hence, **option (c)** is the right answer choice.

93. (d) 'Engraving, Solidarity' is the correct pair of words that fits in the sentence to make it grammatically and contextually correct. Hence, **option (d)** is the right answer choice.

94. (b) 'Dreaded, Irritates' is the correct pair of words that fits in the sentence to make it grammatically and contextually correct. Hence, **option (b)** is the right answer choice.

95. (c) 'Stabilization' will make the paragraph meaningful. Hence, **option (c)** is the right answer choice.

96. (e) 'Austerity' will make the paragraph meaningful. Hence, **option (e)** is the right answer choice.

97. (b) 'Indefensible' will make the paragraph meaningful. Hence, **option (b)** is the right answer choice.

98. (d) 'Reckoned' will make the paragraph meaningful. Hence, **option (d)** is the right answer choice.

99. (d) The correct sequence of the sentence is **CDAB.** The sentence after rearrangement is, The Union Government issued a set of rules under the Information Technology Act, noting that it was superseding rules issued under Section 79 of that statute in 2011.

Hence, **option (d)** is the right answer choice.

100. (c) The correct sequence of the sentence is **BACD.** The sentence after rearrangement is, It seems very thoughtful and rational that our National Science Day celebrates a discovery and not the birthday of its discoverer.

Hence, **option (c)** is the right answer choice.

101. (b) The correct sequence of the sentence is **ADBC.** The sentence after rearrangement is, It is of significant concern that the purview of the IT Act, 2000, has been expanded to bring digital news media under its regulatory ambit without legislative action.

Hence, **option (b)** is the right answer choice.

102. (e) The sentence is properly arranged and there is no rearrangement required. Hence, **option (e)** is the right answer choice.

103. (d) A-C and B-D can be joined using **AND** in the best possible way without changing the intended meaning. The sentences thus formed are:

A-C: The rules have grown to include a chapter on how digital news sites have to be registered before the Ministry of Information and Broadcasting **and** they further laid out a mechanism by which streaming video sites featuring original content have to agree to a government-supervised "self regulatory system".

B-D: There is an increasing public discussion on concerns regarding the usage of digital powers **and** challenges are being made by firms and impacted individuals against their abuse which something that the Union Government would like to avoid.

Hence, **option (d)** is the right answer choice.

104. (b) B-C can be joined using **AS** in the best possible way without changing the intended meaning. The sentence thus formed is:

B-C: **As** long-term bonds react more to rate changes, categories such as gilt, long-duration and dynamic bond funds delivered CAGRs of 8-10% in the five years from FY15 to FY21.

Hence, **option (b)** is the right answer choice.

105. (a) C-D can be joined using **SO THAT** in the best possible way without changing the intended meaning. The sentence thus formed is:

C-D: It is important to be sensitised about headache syndromes in children so that they do not suffer loss of education and are not subjected to unnecessary tests.

Hence, **option (a)** is the right answer choice.

106. (b) The correct sequence of the words given in bold is **BACD.** The sentence after the word rearrangement is, Under the **guidelines (B)**, it appears as if the citizens have been **empowered (A)** and that there is now a fair **grievance (C)** redressal mechanism for users of **digital (D)** platforms.

Hence, **option (b)** is the right answer choice.

107. (d) The correct sequence of the words given in bold is **DABC.** The sentence after the word rearrangement is, Mr. Biden cannot **afford (D)** to alienate the Saudi regime beyond a **point (A)** because this could **intensify (B)** Riyadh's opposition to his stated intention of **returning (C)** to the Iran nuclear deal.

Hence, **option (d)** is the right answer choice.

108. (b) CDE will be the appropriate set of words which can most suitably complete the sentence without altering the meaning of the statement. The sentence will be, As governments democratic and authoritarian begin the **process** of vaccinating citizens against COVID-19, India has **emerged** as perhaps the first country in the world whose leader is using vaccination certificates to **promote** his own politics and cult of personality.

Hence, **option (b)** is the right answer choice.

109. (e) AFE will be the appropriate set of words which can most suitably complete the sentence without altering the meaning of the statement. The sentence will be,

Raman **lectured** at several scientific societies across India and he also toured Europe to **attend** scientific conferences, which also attracted **coverage** in the European press.

Hence, **option (e)** is the right answer choice.

110. (b) BAC will be the appropriate set of words which can most suitably complete the sentence without altering the meaning of the statement. The sentence will be, The order was meant to **boost** local manufacturing, in the **spirit** of 'Make in India', but had unintended consequences for India's **fledgling** genome-sequencing efforts.

Hence, **option (b)** is the right answer choice.

111. (d) The correct sequence of the given sentences is **DEABC.**

Third sentence will be A. Hence, **option (d)** is the right answer choice.

112. (d) The correct sequence of the given sentences is **DEABC.**

Second sentence will be E. Hence, **option (d)** is the right answer choice.

113. (c) The correct sequence of the given sentences is **DEABC.**

Fifth sentence will be C. Hence, **option (c)** is the right answer choice.

114. (e) The correct sequence of the given sentences is **DEABC.**

Fourth sentence will be B. Hence, **option (e)** is the right answer choice.

115. (a) The correct sequence of the given sentences is **DEABC.**

First sentence will be D. Hence, **option (a)** is the right answer choice.

116.	**(b)**	**117.**	**(a)**	**118.**	**(c)**	**119.**	**(a)**	**120.**	**(d)**
121.	**(a)**	**122.**	**(e)**	**123.**	**(d)**	**124.**	**(b)**	**125.**	**(c)**
126.	**(a)**	**127.**	**(e)**	**128.**	**(d)**	**129.**	**(d)**	**130.**	**(d)**
131.	**(d)**	**132.**	**(b)**	**133.**	**(d)**	**134.**	**(e)**	**135.**	**(d)**
136.	**(b)**	**137.**	**(c)**	**138.**	**(b)**	**139.**	**(a)**	**140.**	**(a)**
141.	**(b)**	**142.**	**(c)**	**143.**	**(e)**	**144.**	**(b)**	**145.**	**(a)**
146.	**(d)**	**147.**	**(c)**	**148.**	**(e)**	**149.**	**(d)**	**150.**	**(a)**
151.	**(d)**	**152.**	**(b)**	**153.**	**(a)**	**154.**	**(c)**	**155.**	**(e)**