

# IBPS Clerk Mains Solved Paper - 2020

Held on 28th-Feb-2020

(Based on Memory)

Time : 120 minutes

Max. Marks : 200

## REASONING & COMPUTER APTITUDE

**DIRECTIONS (Qs. 1-5):** Read the instructions carefully to answer the questions given below.

There are six different potters – A, B, C, D, E and F. Makes pots starting from Monday to Saturday (of the same week) not necessarily in same order. The number of pots made by six potters on six different days are 6, 8, 14, 17, 20 and 29 (Not necessarily in the same order).

On Wednesday number of pots made are 14. The sum of the number of pots made on Monday and Thursday is divisible by the number of pots made on Wednesday. There are two potter between one makes 6 pots. There are two potter between A and F. There are three potters between E and C. B not makes the least number of pots. The sum of pots made on Wednesday and Saturday is two more than the number of pots made on Friday. The difference between the number of pots made by A and F is less than five. The potter E makes the pots on one of the days after the potter which makes 6 pots. The potter which made more than 14 pots is immediatly after the one which makes 14 pots. potter E makes more number of pot than potter C.

- Which of the following is made by potter B?  
(a) 6 (b) 14 (c) 20 (d) 29  
(e) 17
- The least number of pots were made on  
(a) Monday (b) Saturday  
(c) Thursday (d) Tuesday  
(e) Friday
- Which of the following combinations of number of pots made–Day is true for F?  
(a) 6-Tuesday (b) 8-Monday  
(c) 29-Friday (d) 20-Thursday  
(e) 14-Wednesday
- Which potter makes the pots, that is multiple of 7?  
(a) A (b) C (c) F (d) E  
(e) B
- 29 pots were made on which day?  
(a) Tuesday (b) Saturday  
(c) Friday (d) Monday  
(e) Wednesday

**DIRECTIONS (Qs. 6-10):** Read the information carefully to answer to questions given below.

Nine person P, Q, R, S, T, U, V, W and X have attended the webinars in three different months April, May and June. With three webinars in each month scheduled on 7<sup>th</sup>, 13<sup>th</sup> and 24<sup>th</sup> of the month but not necessarily in the same way. Each of them

participated for different topics of webinar, which is toy, watch, juice, water, bike, pen, butter, head phone and mobile. All of the information is not necessarily in the same order. P attend the webinar in a month having 30 days. There are two people attend the webinar between P and the one who attended the webinar of toy. P attended on date 13<sup>th</sup> of any months. W attended the webinar of juice on even number of date of a month having 30 days. The one who attended the webinar of bike goes to 7<sup>th</sup> date of a month having more than 30 days. T goes to attended just before X, who goes on even numbered date of a month having more than 30 days. V attended the webinar of bike. Webinar of watch is scheduled just before webinar of water. There are one webinar scheduled between webinar of Q and R. T attended the webinar on odd number of date of any month. The one who attended the webinar of toy goes just before the one who goes for pen. U is the last person to attended the webinar and he goes for headphone. S attended in the month having even number of days and on 7<sup>th</sup> date but not for webinar of mobile. There are one webinar scheduled between webinar of butter and webinar of head phone.

- R attended the webinar in which month?  
(a) April (b) 24<sup>th</sup> May  
(c) 13<sup>th</sup> June (d) 7<sup>th</sup> May  
(e) 7<sup>th</sup> June
- T attended the webinar of toy on?  
(a) 7<sup>th</sup> May (b) 13<sup>th</sup> May  
(c) 24<sup>th</sup> June (d) 13<sup>th</sup> April  
(e) 7<sup>th</sup> June
- Q attended the webinar of?  
(a) water (b) pen  
(c) headphone (d) watch  
(e) mobile
- Who attended the webinar on 24<sup>th</sup> June?  
(a) W (b) S  
(c) X (d) T  
(e) U
- Who participated in the webinar of mobile?  
(a) Q (b) X  
(c) W (d) S  
(e) R

**DIRECTIONS (Qs. 11-13):** These questions are based on the following information.

'M is the mother of N' is represented by 'M @ N'  
'M is the husband of N' is represented by 'M \$ N'  
'M is the sister of N' is represented by 'M # N'  
'M is the son of N' is represented by 'M \* N'

11. If  $D \# J * T \$ R @ L$ , then which of the following is definitely true?  
 (a) L is the brother of D (b) D is the sister of L  
 (c) D is the brother of J (d) L is the brother of J  
 (e) None of these
12. Which of the following indicated the relationship 'R' is the daughter of 'T'?  
 (a)  $R \# D * B @ T$  (b)  $R \# D * B \$ T$   
 (c)  $T @ B \# R * D$  (d)  $T @ B \# D * R$   
 (e) None of these
13.  $P * H @ D * K$ , represents what relation of K with P?  
 (a) Mother (b) Father  
 (c) Father-in-law (d) Sister  
 (e) None of these

**DIRECTIONS (Qs. 14-18):** A word and number arrangement machine when arranges an input line of words and numbers rearranges them following a particular logic. An illustration of the same is given below.

**Input:** nature 47 total 23 work 13 create 77 enjoy 43 universe 84

**Step I:** work nature 47 total 23 create 77 enjoy 43 universe 84 13

**Step II:** universe work nature 47 total create 77 enjoy 43 84 13 23

**Step III:** total universe work nature 47 create 77 enjoy 84 13 23 43

**Step IV:** nature total universe work create 77 enjoy 84 13 23 43 47

**Step V:** enjoy nature total universe work create 77 13 23 43 47 84

**Step VI:** create enjoy nature total universe work 13 23 43 47 84 77

Step VI is the final output.

On the basis of above illustration find the different steps of rearrangement for the input given below.

**Input:** request 52 demand 21 buy 10 trust 32 once 84 share 45

14. Which of the following is third to the left of '52' in step III?  
 (a) share (b) 10  
 (c) request (d) 21  
 (e) None of these
15. What is the sum of the numbers that come between 'trust' and 'once' in step II?  
 (a) 107 (b) 52 (c) 32 (d) 84  
 (e) None of these
16. Which of the following pairs represents the elements at extreme ends in step V?  
 (a) once 45 (b) demand 45  
 (c) demand 52 (d) once 52  
 (e) None of these
17. Which of the following steps is – "once request share trust demand buy 84 45 10 21 32 52"?  
 (a) Step II (b) Step III  
 (c) Step IV (d) Step V  
 (e) None of these
18. What is the difference of 9th element from the right end in step III and 8th element from left end in step VI?  
 (a) 19 (b) 29 (c) 25 (d) 31  
 (e) 26

**DIRECTIONS (Qs. 19-23):** Read the given information and carefully answer the following questions.

A certain number of people are sitting around a circular table. Some of them are facing towards the centre and others are away from the centre and there are few vacant seats as well.

Dhirendra does not sit to the left of Dimple. No one sits to the immediate left of Dhirendra. Only two people sit between Darpan and Dimple. Dimple sits opposite to Naina and does not face towards the centre. Darpan, who does not face inside, is an immediate neighbour of Dhirendra. Naina faces a direction opposite to Dhirendra who sits fourth to the right of Kritika and faces outside. Naina, sits immediate right of Kritika who sits second to the left of Indu. Indu does not face towards the centre. The number of people sitting between Indu and Dimple is the same as the number of people sitting between Darpan and Naina. Naina does not face away from the centre.

19. How many people sit between Darpan and Indu?  
 (a) 1 (b) 2 (c) 3 (d) 4  
 (e) 5
20. How many people are sitting in the circular table?  
 (a) 6 (b) 7 (c) 5 (d) 8  
 (e) 4
21. Who among the following faces inside?  
 (a) Dimple (b) Indu  
 (c) Dhirendra (d) Darpan  
 (e) No one
22. Who sits immediately left of Kritika?  
 (a) Naina (b) Darpan  
 (c) No one (d) Indu  
 (e) Dimple
23. How many vacant seats are there in between of Dimple and Naina, if we count from the right of Dimple?  
 (a) One (b) Two  
 (c) Three (d) No one  
 (e) Four

**DIRECTIONS (Qs. 24-28):** Study the following information carefully and answer the questions given below.

There are 3 parallel rows, row I, row II and row III, each row consist of 6 people.

People sitting in row I are facing south. First three people in row II from the western side are facing north while next three people are facing south. All persons in row III are facing towards north direction.

Row I is to the north of row II and row II is to the north of row III. L is sitting at the western side of M. W is not sitting at the third position from any of the extreme corners. P is facing south and sitting at the first position from the eastern side. N is not sitting in row III. R was sitting adjacent to the person who was sitting in front of P. One person is sitting between J and the person who is facing R. U is sitting at one of the corners and facing south direction. Z is not sitting at any of the corners, O is sitting at one of the corners. 3 persons are sitting between L and M and both of them are facing the same direction. Q is sitting third to the right of P. K is sitting at one of the eastern corners and facing north direction. X is sitting in front of J. V is sitting third to the right of L. There are 2 persons between one who is sitting in front of V and T, Y is not sitting in row I, while Z is neither sitting in row I nor in row III. W and O are not sitting in the same row, but W is sitting in front of the person who is sitting second to the right of Z. P and I are facing same directions but they are not neighbours. H is sitting in front of Y.

24. Who is sitting fourth to right of the person who is sitting adjacent to L?  
 (a) T (b) M (c) K (d) O  
 (e) None of these
25. As W is related to I and X is related to T, which of the following is related to Z?  
 (a) H (b) O (c) T (d) X  
 (e) R
26. Four of the following five options are somehow similar to each other and thus form a group. Which of the following does not belongs to that group?  
 (a) U (b) L (c) T (d) O  
 (e) J
27. Which of the following is sitting second to the right of 'R'.  
 (a) X (b) Z  
 (c) O (d) No one  
 (e) None of these
28. Who is sitting at fourth from the east in row I?  
 (a) W (b) I  
 (c) Q (d) X  
 (e) J
29. If 'eye' is called 'hand', 'hand' is called 'mouth', 'mouth' is called 'ear', 'ear' is called 'nose' and 'nose' is called 'tongue', with which of the following would a person hear?  
 (a) Eye (b) Mouth  
 (c) Nose (d) Ear  
 (e) None of these
30. If 'oranges' are 'apples', 'bananas' are 'apricots', 'apples' are 'chillies', 'apricots' are 'oranges' and 'chillies' are 'bananas', then which of the following are green in colour?  
 (a) Apricots (b) Apples  
 (c) Chillies (d) Bananas  
 (e) Oranges
31. If it is possible to make a meaningful word with the third, the fifth, the sixth and the eleventh letters of the word MERCHANDISE, using each letter only once, which of the following will be the third letter of that word? If no such word can be formed, give 'X' as answer and if more than one such word can be formed, mark 'T' as answer.  
 (a) H (b) E (c) R  
 (d) X (e) T

**DIRECTIONS (Qs. 32-33):** Study the following information to answer the given questions.

In a certain code 'colours of the sky' is written as 'ki la fa so', 'rainbow colours' is written as 'ro ki' and 'sky high rocket' is written as 'la pe jo' and 'the rocket world' is written as 'pe so ne'.

32. Which of the following is the code for 'colours sky high'?  
 (a) ro jo la (b) fa la jo (c) la ki jo  
 (d) ki ro la (e) fa ki jo
33. Which of the following will/may represent 'the'?  
 (a) Only fa (b) Only la  
 (c) Only so (d) Either (a) or (b)  
 (e) Either (a) or (c)

**DIRECTIONS (Qs. 34-35):** Study the following information carefully and answer the questions given below:

A child is looking for his father. He went 90 meters in the east before turning to his right. He went 20 meters before turning to his right again to look for his father at his uncle's place 30 meters from this point. His father was not there. From here he went 100 meters to his north before meeting his father in a street.

34. How far did the son meet his father from the starting point?  
 (a) 90 m (b) 100 m  
 (c) 260 m (d) 140 m  
 (e) None of these
35. How much distance covered by the child to meet his father?  
 (a) 205 m (b) 200 m  
 (c) 240 m (d) 220 m  
 (e) None of these

**DIRECTIONS (Qs. 36-39):** In the following questions, the symbols \$, ©, ×, @ and # are used with the following meanings:

P \$ Q means P is not smaller than Q.

P © Q means P is neither greater than nor smaller than Q.

P @ Q means P is not greater than Q.

P × Q means P is neither smaller than nor equal to Q.

P # Q means P is neither greater than nor equal to Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true. Give answer

- (a) if only conclusion I is true;  
 (b) if only conclusion II is true;  
 (c) if either I or II is true;  
 (d) if neither I nor II is true; and  
 (e) if both I and II are true.
36. **Statements:**  
 Z \$ K, K × T, T © F  
**Conclusions:**  
**I.** F # Z **II.** Z × T
37. **Statements:**  
 K × B, B @ D, D # K  
**Conclusions:**  
**I.** B @ K **II.** B # K
38. **Statements:**  
 N © R, R @ M, M \$ J  
**Conclusions:**  
**I.** N © M **II.** N # M
39. **Statements:**  
 S \$ T, T @ R, R # M  
**Conclusions:**  
**I.** M × T **II.** M © T

**DIRECTIONS (Qs. 40-43):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and answer the questions.

Give answer (a) if the data in statement I alone is sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Give answer (b) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Give answer (c) if the data either in statement I alone or in statement II alone are sufficient to answer the question; and

Give answer (d) if the data given in both the statements I and II together are not sufficient to answer the question; and

Give answer (e) if the data in both the statements I and II together are necessary to answer the question.

40. Among P, Q, R, S and T sitting in a straight line, facing North, who sits exactly in the middle of the line?
- P sits third to the left of S. T is an immediate neighbour of P as well as R.
  - T sits second to the left of S. Q is not an immediate neighbour of T or S.
41. Are all the five friends – A, B, C, D and E – sitting around a circular table facing the centre, who sits to the immediate right of A?
- E sits to third to the right of D. A is not an immediate neighbour of D.
  - C sits to second left of B. A is not an immediate neighbour of D.
42. Who among P, Q, R, S and T is the tallest?
- P is taller than S and T but shorter than R, Q is taller than S.
  - T is taller than S. P is not the tallest.
43. Is 'EAST' the word formed after performing the following operation on a word containing these four letters?
- There is only one letter between A and T, E is to the left of A.
  - The word does not begin with T. There is only one letter between E and S, T is not an immediate neighbour of E.

**DIRECTIONS (Qs. 44-45):** In each question below is given a statement followed by two assumptions number I and II.

An assumption is something supposed or taken for granted. You have to consider the statement and the following assumption and decide which of the assumptions is implicit in the statement.

**Give answer:**

- if only assumption I is implicit.
  - if only assumption II is implicit.
  - if either assumption I or II is implicit.
  - if neither assumption I nor II is implicit.
  - if both assumptions I and II are implicit.
44. **Statement:** The General Administration Department has issued a circular to all the employees informing them that henceforth the employees can avail their lunch break at any of the half-hour slots between 1.00 pm and 2.30 pm.
- Assumption:**
- The employees may welcome the decision and avail lunch break at different time slots.
  - There may be not be any break in the work of the organisation as the employees will have their lunch break at different time slots.

45. **Statement:** The Government has decided against reduction of prices of petroleum products though there is a significant drop in the crude oil prices in the international market.

**Assumption:**

- The prices of crude oil in the international market may again increase in the near future.
- The present price difference of petroleum products will help the government to withstand any possible price rise in future.

**DIRECTIONS (Qs. 46-47):** In making decisions about important questions it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments. Strong arguments are those which are both important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.

Each question has two arguments numbered I and II. You have to decide which of the arguments is a strong or weak.

**Give answer:**

- If only Argument I is Strong.
  - If only Argument II is Strong.
  - If either Argument I or II is Strong.
  - If neither Argument I or II is Strong.
  - If both Argument I and II are Strong.
46. Should there be a complete ban on mining coal in India?
- Arguments:**
- Yes, the present stock of coal will not last long if we continue mining at the present rate.
  - No, we do not have alternate energy source of sufficient quantity.
47. Should there be uniforms for students in the colleges in India as in the schools?
- Arguments:**
- Yes, this will improve the ambience of the colleges as all the students will be decently dressed.
  - No, college students should not be regimented and they should be left to choose their clothes for coming to college.

**DIRECTIONS (Qs. 48-49):** In each question below is given a statement followed by two courses of action number I and II. A course of action is a step or administrative decision to be taken for improvement follow-up further action in regard to the problem policy, etc. on the basis of information given in the statement to be true then decided which of the suggested courses of action logically follow (s) for pursuing.

**Give answer:**

- if only I follows.
- if only II follows.
- if either I or II follows.
- if neither I nor II follows.
- if both I and II follow.

48. **Statement:** A major river in the city was reduced to a polluted and dirty canal after tonnes of sewage made way into it over the years.

**Course of action**

- I. All those who dumped garbage and sewage into the river should be penalized.
- II. The Government should modify the sewage system and find an alternate way to dump the city's waste.

49. **Statement:** Water table in most part of the State has gone down to such a level that its extraction for irrigation purpose is not economical any more.

**Course of action**

- I. Extraction of ground water for any purpose in the state should be banned for some time in order to replenish the water table.
- II. The Government should made provisions for alternative method of irrigation so that the farmers are not compelled to use ground water.

**DIRECTION (Q. 50):** In each of the question below are Four statements following by Four conclusions numbered I ,II, III and IV. You have to take the Four given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusion logically follows from the two statements disregarding commonly known fact.

50. **Statement:** Some doctors are lawyers. All teachers are lawyers. Some engineers are lawyers. All engineers are businessmen.

**Conclusions:**

- I. Some teachers are doctors.
  - II. Some businessmen are lawyers.
  - III. Some businessmen are teachers.
  - IV. Some lawyers are teachers.
- (a) None follows                      (b) Only II follows  
 (c) Only III follows                  (d) Only II and IV follow  
 (e) None of these

**QUANTITATIVE APTITUDE**

**DIRECTIONS (Qs. 51-55) :** Study the following table, showing monthly sales of cars of five types by five automobile shops to answer these questions.

Type	Automobile shops				
	P	Q	R	S	T
A	1250	3500	1360	2240	210
B	2100	3080	3700	4200	920
C	3460	4400	4860	4860	4760
D	900	680	700	1120	600
E	300	440	1200	1250	280

51. Which shop has the lowest sales of both type B and type E as compared to other shops ?  
 (a) P                      (b) Q                      (c) R                      (d) T

52. Which shop has a share of 15% sales of the total type D sold by all the shops ?  
 (a) P                      (b) Q                      (c) R                      (d) T

53. Which shop has the highest sale of cars of all the types ?  
 (a) P                      (b) Q                      (c) R  
 (d) None of these

54. Which shop sales cars of type B seven times to that of type E sold by it ?  
 (a) Only P                      (b) Only Q  
 (c) Both P and Q              (d) Only T

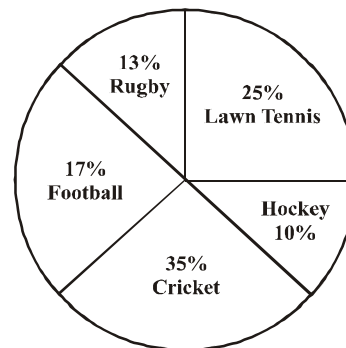
55. Among all the shops the lowest sale of type A is the highest sale of which of the following types ?  
 (a) B                      (b) C  
 (c) D                      (d) No such type exists

**DIRECTIONS (Qs. 56-60) :** Study the following pie-chart carefully to answer these questions.

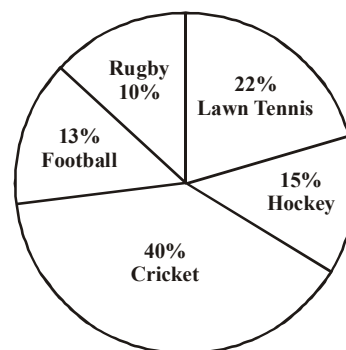
**Percentage-wise Distribution of Players Who Play Five Different Sports**

**Total Players are 4200 out of which Female Players are equal to 2000**

**Total Players = 4200**  
**Percentage of Players who play different sports**



**Female Players = 2000**  
**Percentage of Female Players who play different sports**



56. What is the average number of players (both male and female) who play football and rugby together?  
 (a) 620                      (b) 357  
 (c) 230                      (d) 630  
 (e) None of these

57. What is the difference between the number of the female players who play lawn tennis and the number of male players who play rugby?  
 (a) 94 (b) 84 (c) 220 (d) 240  
 (e) None of these
58. What is the respective ratio of the number of female players who play cricket and number of male players who play hockey?  
 (a) 20 : 7 (b) 4 : 21 (c) 20 : 3 (d) 3 : 20  
 (e) None of these
59. What is the total number of male players who play football, cricket and lawn tennis together ?  
 (a) 1,724 (b) 1,734 (c) 1,824 (d) 1,964  
 (e) None of these
60. Number of male players who play rugby is **approximately** what percentage of the total number of players who play lawn tennis ?  
 (a) 33 (b) 39 (c) 26 (d) 21  
 (e) 43

**DIRECTIONS (Qs. 61–65):** In the paragraph some information is given about some different trains. Study the given paragraph carefully and answer the related questions.

Train A starts its journey at 5 A.M and reaches its destination at 7 P.M same day. Train D covers 25% more distance than train A in 50% more time than A. B covers a distance equal to total distance covered by A and D together and it takes 2 hrs more than A. Distance covered by train E is 20% less than train D. Speed of train C is five times of the time taken by train B and it takes equal time as train A. Train C covers 12% more distance than train A. Speed of train C is 20% less than that of train E.

61. What is respective ratio of speeds of train C and that of train A?  
 (a) 5 : 8 (b) 25 : 28 (c) 28 : 25 (d) 13 : 17  
 (e) None of these
62. If speed of train D is increased by 20% then what is time required to cover a distance covered by A?  
 (a) 12 hrs (b) 10 hrs (c) 20 hrs (d) 7 hrs  
 (e) None of these
63. What is average distance covered by A, C and E together?  
 (a) 1210 km (b) 960 km  
 (c) 1020 km (d) 1040 km  
 (e) None of these
64. What is respective ratio of speed of B and that of D?  
 (a) 189 : 80 (b) 80 : 89  
 (c) 80 : 189 (d) 180 : 89  
 (e) None of these
65. What is average speed of all trains together?  
 (a) 82.86 km/h (b) 88.26 km/h  
 (c) 76.56 km/h (d) 89.86 km/h  
 (e) None of these

**DIRECTIONS (Qs. 66–70):** Study the information carefully to answer the questions that follow.

A company produced five different products, viz mobile phone, pen drive, calculator, television and washing machine. The total number of all the five products is 1650. 24% of the total number of products is mobile phones. One-sixth of the total

- number of products is pen drives. 14% of the total number of products is calculators. Remaining products are either television or washing machine. The number of washing machines is 50 more than the number of televisions produced.
66. What is the ratio of the number of washing machines to the number of calculators produced by the company?  
 (a) 17 : 11 (b) 19 : 11 (c) 11 : 17 (d) 19 : 13
67. If 24 per cent of the pen drives are defective, what is the number of pen drives which are not defective?  
 (a) 209 (b) 215 (c) 219 (d) 225
68. The number of televisions produced is approximately what per cent of the total number of calculators and washing machines produced together?  
 (a) 63 (b) 55 (c) 59 (d) 51
69. What is the difference between the total number of televisions and mobile phones together and the number of calculators produced?  
 (a) 534 (b) 524 (c) 514 (d) 523
70. What is the total number of pen drives, calculators and washing machines produced by the company?  
 (a) 907 (b) 917 (c) 925 (d) 905

**DIRECTIONS (Qs. 71-75) :** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

Read both the statements and Give answer

- (a) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- (b) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- (c) if the data either in statement I alone or in statement II alone are sufficient to answer the question.
- (d) if the data in both the statements I and II together are not sufficient to answer the question.
- (e) if the data in both the statements I and II together are necessary to answer the question.
71. What was the ratio between the ages of P and Q four years ago?  
**I.** The ratio between the present ages of P and Q is 3:4.  
**II.** The ratio between the present ages of Q and R is 4:5.
72. What was the cost price of the suitcase purchased by Samir?  
**I.** Samir got 25 percent concession on the labelled price.  
**II.** Samir sold the suitcase for ₹ 2000 with 25 percent profit on the labelled price :
73. What is the height of a triangle?  
**I.** The area of the triangle is 20 times its base.  
**II.** The perimeter of the triangle is equal to the perimeter of a square of 10 cm side.
74. What percentage rate of simple interest per annum did Ashok pay to Sudhir?  
**I.** Ashok borrowed ₹ 8000 from Sudhir for four years.  
**II.** Ashok returned ₹ 8800 to Sudhir at the end of two years and settled the loan.

75. What is the speed of a running train?  
**I.** The train crosses a signal post in 6 seconds.  
**II.** The train crosses another train running in the opposite direction in 15 seconds.
76. Ms. Pooja Pushpan invests 13% of her monthly salary, i.e. ₹, 8554 in Mediciclaim Policies, Later she invests 23% of her monthly salary on Child. Education Policies; also she invests another 8% of her monthly salary on Mutual Funds. What is the total annual amount invested by Ms. Pooja Pushpan?  
 (a) ₹ 28952 (b) ₹ 43428  
 (c) ₹ 347424 (d) ₹ 173712  
 (e) None of these
77. Simple interest on a sum of money for 4 yr at 7 pcpa is ₹ 3584. What would be the compound interest (compounded annually) on the same amount of money for 2 yr at 4 pcpa?  
 (a) ₹ 1162.32 (b) ₹ 1098.72  
 (c) ₹ 992.38 (d) ₹ 1231.76  
 (e) ₹ 1044.48
78. Ramesh had a sum of money. Two-third of the total money he invested in scheme A for 6 years and rest of the money he invested in scheme B for 2 years. Scheme A offers simple interest rate of 12% per annum and scheme B offers compound interest (compounded annually) at a rate of 10% per annum. If the total sum obtained from both the schemes is ₹ 5610, what was the total amount invested by him in scheme A and scheme B together ?  
 (a) ₹ 15000 (b) ₹ 10200  
 (c) ₹ 11500 (d) ₹ 10500  
 (e) ₹ 14640
79. A man sells three motors for ₹ 5,400, ₹ 3,300 and ₹ 4,350 respectively. He makes 20% profit on the first and 10% profit on the second but on the whole he loses  $9\frac{3}{8}\%$ . What did the third motor car cost him ?  
 (a) ₹ 6500 (b) ₹ 6900  
 (c) ₹ 5100 (d) ₹ 7200  
 (e) None of these
80. A man bought a scooter and a car. He sold all of them at 30% profit. Scooter is sold at 10% profit. Cost price of scooter is  $\frac{1}{10}$  of the cost of car. Marked price of a car is ₹ 4,50,000. If he bought scooter at a discount of 20% on marked price and car at a discount of 10% on marked price then, what will be the ratio of marked price of scooter to the selling price of the car.  
 (a)  $\frac{25}{264}$  (b)  $\frac{25}{268}$   
 (c)  $\frac{35}{260}$  (d)  $\frac{34}{260}$   
 (e) None of these
81. The average age of the group having 3 members is 84. One more person joins the group and now the average becomes 80. Now a fifth person comes whose age is 3 years more than that of fourth person replaces the first person. After this the average age of the group becomes 79. What is the weight of the first person?  
 (a) 75 (b) 65  
 (c) 68 (d) 82  
 (e) 85
82. The sum of the ages of 4 members of a family 5 years ago was 94 years. Today, when the daughter has been married off and replaced by a daughter-in-law, the sum of their ages is 92. Assuming that there has been no other change in the family structure and all the people are alive, what is the difference in the age of the daughter and the daughter-in-law ?  
 (a) 22 years (b) 11 years  
 (c) 25 years (d) 19 years  
 (e) 15 years
83. A has double the money of B and B has 50% more money than C. If average money of all the three persons is 12000, how much money A have?  
 (a)  $\frac{211000}{11}$  (b)  $\frac{315000}{11}$   
 (c)  $\frac{216000}{11}$  (d)  $\frac{316000}{11}$   
 (e) None of the above
84. One fill pipe A takes 3 minutes more to fill the cistern than two fill pipes A and B opened together to fill it. Second fill pipe B takes  $21\frac{1}{3}$  minutes more to fill cistern than two fill pipes A and B opened together to fill it. When will the cistern be full if both pipes are opened simultaneously.  
 (a) 7 minutes (b) 16 minutes  
 (c) 8 minutes (d) 10 minutes  
 (e) 12 minutes
85. Two trains, 100 km apart, travel towards each other on the same track. One train travels at 40 km/hr; the other travels at 60 km/hr. A bird starts flying at a speed of 90 km/hr, at the same location of the faster train. When it reaches the slower train, it turns around and flies in the opposite direction at the same speed. When it reaches the faster train, again it turns around and so on. When the two trains collide, how far has the bird flown?  
 (a) 90 km (b) 45 km  
 (c) 180 km (d) 135 km  
 (e) None of these
86. A rectangular tank measuring  $5\text{m} \times 4.5\text{m} \times 2.1\text{m}$  is dug in the centre of the field measuring  $13.5\text{m} \times 2.5$ . The earth dug out is spread evenly over the remaining portion of a field. How much is the level of the field raised?  
 (a) 4.0 m (b) 4.1 m  
 (c) 4.2 m (d) 4.3 m  
 (e) None of these

**DIRECTIONS (Qs. 87-88):** What should come in place of the following question mark in the following number series?

87. 649.6875 1299.375 866.25 346.5 99 22 ?  
 (a) 4 (b) 7  
 (c) 10 (d) 12  
 (e) None of these
88. 30 16 10 8 8 9 ?  
 (a) 12.75 (b) 13  
 (c) 14 (d) 10.5  
 (e) None of these
89. A vessel is filled with liquid, 3 parts of which are water and 5 parts are syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup?  
 (a)  $\frac{1}{3}$  (b)  $\frac{1}{4}$   
 (c)  $\frac{1}{5}$  (d)  $\frac{1}{6}$   
 (e) None of these
90. A box contains 5 green, 4 yellow and 3 white marbles. Three marbles are drawn at random. What is the probability that they are not of the same colour ?  
 (a)  $\frac{40}{44}$  (b)  $\frac{44}{41}$   
 (c)  $\frac{41}{44}$  (d)  $\frac{40}{39}$   
 (e)  $\frac{44}{39}$

**DIRECTIONS (Qs. 91-94):** In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

- (a) if  $x > y$   
 (b) if  $x \geq y$   
 (c) if  $x < y$   
 (d) if  $x \leq y$   
 (e) if  $x = y$  or no relation can be established between  $x$  and  $y$ .
91. I.  $x^2 - 8x + 15 = 0$   
 II.  $y^2 - 13y + 40 = 0$
92. I.  $x^2 - 3x + 2 = 0$   
 II.  $3y^2 - 7y + 4 = 0$
93. I.  $2x^2 - 9x + 10 = 0$   
 II.  $5y^2 + 17y + 6 = 0$
94. I.  $2x^2 - x - 15 = 0$   
 II.  $7y^2 - 19y + 10 = 0$

**DIRECTION (Q. 95):** In the following question two equations numbered I and II are given. You have to solve both equation and give answer.

- (a) if  $x = y$  (b) if  $x \geq y$   
 (c) if  $x < y$  (d) if  $x \leq y$
95. I.  $\frac{15}{\sqrt{x}} - \frac{9}{\sqrt{x}} = 11\sqrt{x}$   
 II.  $\frac{\sqrt{y}}{4} - \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

**DIRECTIONS (Qs. 96-100):** What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

96. 68% of 1288 + 26% of 734 - 215 = ?  
 (a) 620 (b) 930  
 (c) 540 (d) 850  
 (e) 710
97.  $(32.05)^2 - (18.9)^2 - (11.9)^2 = ?$   
 (a) 670 (b) 530  
 (c) 420 (d) 780  
 (e) 960
98.  $6578 \div 67 \times 15 = ? \times 6$   
 (a) 200 (b) 250  
 (c) 150 (d) 100  
 (e) 300
99.  $\frac{679}{45} \div \frac{23}{2130} \times \frac{126}{169} = ?$   
 (a) 540 (b) 760  
 (c) 800 (d) 1260  
 (e) 1040
100.  $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$   
 (a) 840 (b) 910  
 (c) 1320 (d) 1120  
 (e) 1550

### GENERAL ENGLISH

**DIRECTIONS (Qs. 101-106):** Read the passage and answer the questions that follow.

Since Czech writer Karel Capek first mentioned robots in a 1920s play, humans have dreamed about intelligent machines. What if robots take over policing? What if nanny-bots look after our children and elderly? What if — and this has been rich fodder for dystopian literature — they became more intelligent than us? Surrounded as we are by the vestiges of our analogue world, to many of us, these wonderings may seem decades from fruition. But artificial intelligence (AI), the engine of the Fourth Industrial Revolution, is already very much with us. It is embedded in the recommendations we get on our favourite streaming or shopping site; in GPS mapping technology; in the predictive text that completes our sentences when we try to send an email or complete a web search. It promises to be even more transformative than the harnessing of electricity. And the more we use AI, the more data we generate, the smarter it gets. In just the last decade, AI has evolved with unprecedented velocity — from beating human champions at Jeopardy! In 2011, to vanquishing the world's number one player of Go, to decoding proteins last year. Automation, big data and algorithms will continue to sweep into new corners of our lives until we no longer remember how things were "before". Just as electricity allowed us to tame time, enabling us to radically alter virtually every aspect of existence, AI can leapfrog us toward eradicating hunger, poverty and disease — opening up new and hitherto unimaginable pathways for climate change mitigation, education and scientific discovery.



Already, AI has helped increase crop yields, raised business productivity, improved access to credit and made cancer detection faster and more precise. It could contribute more than \$15 trillion to the world economy by 2030, adding 14% to global GDP. Google has identified over 2,600 use cases of "AI for good" worldwide. A study published in Nature reviewing the impact of AI on the Sustainable Development Goals (SDGs) finds that AI may act as an enabler on 134 — or 79% — of all SDG targets. We are on the cusp of unprecedented technological breakthroughs that promise to positively transform our world in ways deeper and more profound than anything that has come before. Yet, the study in Nature also finds that AI can actively hinder 59 — or 35% — of SDG targets. For starters, AI requires massive computational capacity, which means more power-hungry data centres - and a big carbon footprint. Then, AI could compound digital exclusion. Robotics and AI companies are building intelligent machines that perform tasks typically carried out by low-income workers: self-service kiosks to replace cashiers, fruit-picking robots to replace field workers, etc.; but the day is not far when many desk jobs will also be edged out by AI, such as accountants, financial traders and middle managers.

Without clear policies on reskilling workers, the promise of new opportunities will in fact create serious new inequalities. Investment is likely to shift to countries where AI-related work is already established, widening gaps among and within countries. Together, Big Tech's big four — Alphabet/Google, Amazon, Apple and Facebook — are worth a staggering \$5 trillion, more than the GDPs of just about every nation on earth. In 2020, when the world was ..... (A) from the impact of the COVID-19 pandemic, they added more than \$2 trillion to their value. The fact is, just as AI has the potential to improve billions of lives, it can also replicate and exacerbate existing problems, and create new ones. Consider, for instance, the documented examples of AI facial recognition and surveillance technology discriminating against people of colour and minorities or how an AI-enhanced recruitment engine, based on existing workforce profiles, taught itself that male candidates were preferable to female.

101. Which of the following statement/s can be inferred from the given passage?
- (I) AI is embedded in every aspect of our lives.
  - (II) The evolution of AI has beaten human intelligence.
  - (III) AI can play a crucial role in the eradication of poverty and hunger.
- (a) Both I and II
  - (b) Both II and III
  - (c) Only I
  - (d) Both I and III
  - (e) All I, II, and III
102. Why the author feels that AI can actively hinder Sustainable Development Goals?
- (i) Huge computational activity resulting into big carbon footprint.
  - (ii) Digital exclusion replacing low-income workers with intelligent machines.
  - (iii) Desk jobs will be removed by AI.

- (a) Both i and iii
  - (b) Both ii and iii
  - (c) Both i and ii
  - (d) All of the above
  - (e) None of these
103. Which of the following support the fact that AI can be an enabler of SDG targets?
- (a) Increasing crop yields
  - (b) Raised business productivity
  - (c) Improved access to credit
  - (d) Real time and precise detection of cancer
  - (e) All of the above
104. Which of the following cannot be referred from the given passage?
- (I) Lack of opportunities will result into generating equality.
  - (II) Investment shifting to AI enabled countries will reduce gaps within countries.
  - (III) AI can both improve lives of billions and worsen the current problems.
- (a) Both I and II
  - (b) Both II and III
  - (c) Only II
  - (d) Both I and III
  - (e) All I, II, and III
105. How the author of the passage showcases the problems created by AI?
- (a) Replicating job profile of people and removing them with artificial intelligence.
  - (b) Discrimination of people of colour and minorities.
  - (c) Preferring male candidates to female as per the current workforce profiles using AI-backed recruitment systems.
  - (d) Both (b) and (c)
  - (e) Big tech companies are boosting AI to generate more revenue than GDP of any nation on the earth.
106. Which of the following words can fit in blank (A) to make the sentence grammatically correct and contextually meaningful?
- (a) Shocks
  - (b) Reeling
  - (c) Stun
  - (d) Upset
  - (e) Stagger

**DIRECTIONS (Qs. 107-111):** Read the passage and answer the questions that follow.

The long-term effects of the coronavirus outbreak in the U.S. are still anybody's guess, but most economists and experts are predicting significant negative impacts on GDP, jobs growth and even population sizes. Data released by the Congressional Budget Office last week shows just how bad the U.S. government believes the outlook is for the future. According to projections released by the Congressional Budget Office, the predicted population of the U.S. over the next two and a half decades is expected to be substantially impacted by COVID-19. The new 2020 number of a predicted 374 million people living in the U.S. by 2046 is a revision of the 2018 estimate of 384 million. A big factor in the new number is that economists expect birth rates in the country to decline, **correlating** with higher unemployment rates and an increase in anxiety within the country associated with the pandemic and economic consequences.

Total GDP and labor productivity are expected to decline as well. In 2018, the projected average annual growth in labor productivity was expected to grow by 1.5 percent between the years 2031 and 2050. Now, economists expect that growth number to fall to just 1.3 percent - a small numerical decrease that could amount to larger quality of life consequences in the U.S. Growth in GDP is also expected to fall, going from a 2018 projection of 1.9 percent average annual growth to 1.6 percent between the years 2031 and 2050. According to the Wall Street Journal, these dips in projections are all expected to have a significant impact on the already astronomical national debt in the U.S. Economists don't fully understand what an even faster growth of national debt will do to the country, but most are in agreement that it will **accelerate** over the next decade.

107. Which of the following is true as per the given passage?  
 (I) It's hard to guess long-term effects of COVID in US.  
 (II) GDP will be negatively impacted by COVID.  
 (III) Jobs and population in US will be hugely affected by the pandemic.  
 (a) Only I (b) Only II  
 (c) Only III (d) Both I and III  
 (e) All of these
108. Which of the following cannot be inferred from the given passage?  
 (I) The birth rates are expected to decline by the economists.  
 (II) Anxiety and higher unemployment rates will have a minimal effect on population.  
 (III) The economic recovery of US is unpredictable looking at the current scenario.  
 (a) Both I and II (b) Both II and III  
 (c) Only II (d) Both I and III  
 (e) All I, II, and III
109. Which of the following statements can be inferred from the given passage?  
 (I) Labour productivity was to be increased by 1.5% between 2031-2050.  
 (II) Even a small decline in labour productivity can have a huge impact on quality of life in US.  
 (III) The dips in GDP projections will significantly impact the astronomical national debt.  
 (a) Only I (b) Only II  
 (c) Only III (d) Both I and III  
 (e) All of these
110. Which of the following is most similar in meaning with **CORRELATING** as highlighted in the passage?  
 (a) Contrasting (b) Adhering  
 (c) Associating (d) Describing  
 (e) United
111. Which of the following is most opposite in meaning with **ACCELERATE** as highlighted in the passage?  
 (a) Decelerate (b) Surge  
 (c) Escalate (d) Assist  
 (e) Promote

**DIRECTIONS (Qs. 112-118):** 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.

112. The proceedings saw \_\_\_\_\_ protest by the Opposition members accusing the government of \_\_\_\_\_ democracy.  
 (a) Objections, Unmanageable  
 (b) Agreeable, Clutter  
 (c) Vociferous, Killing  
 (d) Conquest, Destroy  
 (e) Conservatory, Exterminate
113. The SC flagged its concern that political parties could \_\_\_\_\_ crores of rupees received as donations through electoral bonds to \_\_\_\_\_ violent protests or even terror.  
 (a) Misuse, Bankroll (b) Compulsion, Refine  
 (c) Rough, Consent (d) Incompetent, Articulate  
 (e) Curb, Disorder
114. A/an \_\_\_\_\_ "double mutant" coronavirus variant - with a combination of mutations not seen \_\_\_\_\_ else in the world - has been found in India.  
 (a) Coexisting, Concurrently  
 (b) Dogged, Complying  
 (c) Absorbed, Somewhere  
 (d) Decrease, Insistence  
 (e) Unique, Anywhere
115. Warning that Pakistan will take advantage of the \_\_\_\_\_ among the youth in Punjab, as they had done in the past, he \_\_\_\_\_ the need to "learn from history".  
 (a) Acquiescent, Included (b) Plump, Disinclination  
 (c) Absorb, Assimilate (d) Dissatisfaction, Stressed  
 (e) Integrate, Pressurized
116. A major concern in \_\_\_\_\_ Indian development is the widening socio-economic \_\_\_\_\_ across groups and regions.  
 (a) Decadence, Hesitance (b) Contemporary, Disparity  
 (c) Willingness, Inclination (d) Convert, Reticence  
 (e) Advocate, Patronize
117. While the establishment continues to \_\_\_\_\_ the internal nature of the issues raised, it is also beginning to counter the criticisms \_\_\_\_\_.  
 (a) Planned, Bring (b) Inadvisable, Upswing  
 (c) Ascent, Rise (d) Underline, Aggressively  
 (e) Judicious, Convince
118. New Delhi was well within its rights to offer the sovereignty \_\_\_\_\_ and say it did not care but it has engaged the critics, not on facts but on \_\_\_\_\_.  
 (a) Angle, Pitch (b) Heel, Acclaim  
 (c) Shrug, Values (d) Accolade, Compliment  
 (e) Allegation, Strength

**DIRECTIONS (Qs. 119-125):** Read each of the following sentences to find out if there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number (A, B, C or D) of this part is your answer. If there is no error in the statement, then mark option (e) as your answer choice.

119. Amid the lockdown and travel bans triggered (A)/ by the 2019 novel corona virus outbreak in China, (B)/ fears have been expressed about their impact on the (C)/ health of the global economy as a whole. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
120. The 24-year-old woman lecturer succumbed to (A)/ injuries a week after he was set (B)/ ablaze by a jilted lover near the Hinganghat area in (C)/ Maharashtra's Wardha district, on February 3. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
121. In any election campaign, the media (A)/ plays an important role in dissemination (B)/ of information and, thus, enabled the (C)/ people to make a well-informed choice. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
122. The Hummer, which was first marketed in 1992 and then pulled out (A)/ in the market in 2008 following questions over (B)/ its viability after the economic slowdown, is making a (C)/ comeback, albeit with some 'thunderous' modifications. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
123. Actor Margot Robbie's latest anti-hero ensemble (A)/ feature "Birds of Prey" has reportedly being (B)/ marketed by Warner Bros with a new title (C)/ in the waked of dismal opening weekend score. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
124. While the quotas have been politicized over the years, (A)/ the apex court has merely tried to make them practical (B)/, choosing to separated educational quotas from (C)/ jobs, where efficiencies depend on merit and performance. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
125. India has asked Vietnam to open its pharmaceutical (A)/ market for the Indian generic drugs and sought better market (B)/ access for several other products during (C)/ the delegation level talks between India or Vietnam. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E

**DIRECTIONS (Qs 126-131):** 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 option (E), i.e. "None of these" as your answer.

126.

Column (I)	Column (II)
(A) The contemporary crisis within	(D) focus on quality ingredients
(B) The objection is useful insofar as it checks sorry remnants	(E) western democracies is deep rooted
(C) Then came Dalgona coffee, channelling	(F) of western cultural arrogance as well as 'Knowledge imperialism'

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

127.

Column (I)	Column (II)
(A) One year later, we are all more	(D) explain how the year influenced our cooking
(B) He has been making a weekly	(E) helps that lockdown triggered a wave of food
(C) Perhaps TikTok food trends best	(F) visit to the hide to document animal behavior

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

128.

Column (I)	Column (II)
(A) For in order to effectively counter its critics, the	(D) dimension, it does not often translate into all round development
(B) Even when regions perform relatively better in one developmental	(E) entrepreneurs compared to Maharashtra or Gujarat
(C) Tamil Nadu is home to a higher share of lower caste	(F) establishment must first confront itself

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

129.

Column (I)	Column (II)
(A) Relatively higher wages could be offset by access to better	(D) has an intensity in his eyes, which was perfect project
(B) Processes of human development and economic dynamism	(E) can go hand-in-hand and not necessarily be sequential
(C) Prateik Babbar was always our first choice	(F) quality of labour inputs for competitive accumulation

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

130.

Column (I)	Column (II)
(A) The present regime withdrew from the commitments made to the UNHRC	(D) offer a more clear-cut definition of what constitutes 'unfair' trade practice
(B) A framework to bring less-known feature films to limelight, with the help of digital platforms,	(E) by its predecessor on constructive engagement with the international community
(C) A parliamentary panel has recommended that the government should	(F) will be an incentive to film-makers striving to narrate stories from the remote corners of the country

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

131.

Column (I)	Column (II)
(A) I started as a fine arts student in Vadodara	(D) and memories use olfactory data, linking them closely
(B) The parts of your brain that process your emotions	(E) chocolate ice cream made me feel complete in a way nothing else
(C) After getting my taste back, the first swirl of peanut butter has.	(F) moved to screenwriting and directing

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

**DIRECTIONS (Qs. 132-135):** In each question below, a word is given followed by four pairs. Choose the pair which states either the synonyms or the antonyms or a synonym and an antonym of the given word. If none of the four pairs are correct then choose "None of these" as your answer choice.

132. **Abstention**

- (a) Fatal, Dominance (b) Chief, Diminutive  
 (c) Facile, Blemish (d) Straighten, Merge  
 (e) Temperance, Sobriety

133. **Rampant**

- (a) Campaigning, Governed  
 (b) Uncontrolled, Pervasive  
 (c) Abandoned, Checked  
 (d) Controlled, Insignificant  
 (e) Ruled, Decisive

134. **Imprimatur**

- (a) Favor, Liberality (b) Generous, Rejection  
 (c) Acceptance, Explicit (d) Approval, Refusal  
 (e) Colossal, Reprove

135. **Diligence**

- (a) Conserving, Idle (b) Careless, Thrift  
 (c) Assiduous, Ignorant (d) Attentive, Simple  
 (e) Earnest, Demanding

**DIRECTIONS (Qs. 136-140):** Rearrange the following sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) The written reply of the agriculture minister, Narendra Singh Tomar, to the question argued that India had improved its position in the GHI from the previous year to 2020.  
 (B) Responding to a question in Parliament about India being ranked 94th among 107 countries in the Global Hunger Index in 2020, the minister of state for agriculture laughed it off by saying that India feeds stray dogs sweets when they give birth.  
 (C) But the GHI is about hunger, not shortage — about access, not storage.  
 (D) Food may be inaccessible for a large number of Indians, but fig leaves are abundant on government premises.  
 (E) The second fig leaf produced the answer that there is no question of food shortage as the government has doubled the required amount of food in buffer stocks.
136. Which of the following will be the FIFTH sentence after the rearrangement?  
 (a) A (b) B (c) C (d) D  
 (e) E
137. Which of the following will be the SECOND sentence after the rearrangement?  
 (a) A (b) B (c) C (d) D  
 (e) E
138. Which of the following will be the FIRST sentence after the rearrangement?  
 (a) A (b) B (c) C (d) D  
 (e) E
139. Which of the following will be the FOURTH sentence after the rearrangement?  
 (a) A (b) B (c) C (d) D  
 (e) E

140. Which of the following will be the THIRD sentence after the rearrangement?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E

### GENERAL/FINANCIAL AWARENESS

141. RBI nationalised on?  
 (a) 1st January 1948 (b) 1st January 1950  
 (c) 4th Feb 1950 (d) 1st January 1949  
 (e) None of these
142. Who is the CEO of Ayushman Bharat Yojna?  
 (a) Indu Bhushan (b) Pawan Munjal  
 (c) Aditya Puri (d) D. Rajkumar  
 (e) Ravi Pandit
143. Helsinki is the capital of which country?  
 (a) Finland (b) Iceland  
 (c) Macedonia (d) Nigeria  
 (e) Slovenia
144. Which of the following has closed their operation in India?  
 (a) PayPal (b) Square order  
 (c) Paydiant (d) Apple pay  
 (e) None of these
145. What is the India's GDP growth rate for 2021-22 as estimated by the Reserve Bank of India (RBI) in its recent monetary policy?  
 (a) 8.7% (b) 9.2%  
 (c) 10.5% (d) 10.2%  
 (e) 7.9%
146. India has released commemorative postage stamp on which Anniversary of UN —  
 (a) 71st (b) 73rd  
 (c) 76th (d) 70th  
 (e) 75th
147. Bhawna Kanth becomes 1st woman fighter pilot to be part of IAF belongs to which state?  
 (a) Karnataka (b) Odisha  
 (c) Jharkhand (d) Bihar  
 (e) Uttar Pradesh
148. Where is the headquarter of WTO?  
 (a) Washington D.C., USA  
 (b) Geneva, Switzerland  
 (c) Moscow, Russia  
 (d) Dubai, UAE  
 (e) Paris, France
149. Recently who has been elected as the Director-General of International Solar Alliance (ISA)?  
 (a) Raj Kumar Singh (b) Rohit Patel  
 (c) Arun Sinha (d) Ajay Mathur  
 (e) Pawan Munjal
150. Who among the following became the first Indian to finish on the podium at the Individual wrestling world cup, Belgrade (Serbia) in December 2020?  
 (a) Babita Phogat (b) Sakshi Malik  
 (c) Deepa Karmakar (d) Vinesh Phogat  
 (e) Anshu Malik
151. Who won the ICC Men's T-20 cricketer of the decade award 2020?  
 (a) MS Dhoni (b) Virat Kohli  
 (c) Joe Root (d) Rashid Khan  
 (e) None of these
152. Where opens ICICI Bank Representative office?  
 (a) Sri Lanka (b) Nepal  
 (c) UAE (d) USA  
 (e) France
153. Government of India stake in NABARD-----  
 (a) 70% (b) 85%  
 (c) 90% (d) 50%  
 (e) 100%
154. Recently who reviewed the rules of Priority Sector Lending (PSL)?  
 (a) NHB (b) IRDA  
 (c) RBI (d) SEBI  
 (e) NABARD
155. Diego Maradona, who passed away in November 2020, was related to which sports?  
 (a) Hockey (b) Chess  
 (c) Cricket (d) Tennis  
 (e) Football
156. Tapovan Vishnugad power plant is owned by NTPC corporation, is situated in which state?  
 (a) Himachal (b) Andhra Pradesh  
 (c) Uttarakhand (d) Punjab  
 (e) Haryana
157. The mutual fund is regulated by?  
 (a) IRDA (b) RBI  
 (c) SEBI (d) AMFI  
 (e) None of these
158. Which company has been ranked third most valued IT Services brand globally, According to brand finance?  
 (a) Infosys (b) Bipro  
 (c) HCL (d) TCS  
 (e) Apple
159. FASTags work on which technology?  
 (a) Sodar (b) NFC  
 (c) LIDAR (d) RFID  
 (e) None of these
160. In budget 2021, Finance minister Nirmala Sitharamam how much amount proposed for Recapitalisation of Public Sector Bank (In crores)?  
 (a) 15,000 (b) 25,000  
 (c) 20,000 (d) 35,000  
 (e) 50,000
161. India has developed its first ever indigenously 9mm machine pistol jointly by DRDO and Indian army, in Jan-2021. What is the name of the weapon?  
 (a) Dhanush (b) Agni  
 (c) Virat (d) Asmi  
 (e) Rasmi
162. Centre for Wetland Conservation and Management (CWCM) is?  
 (a) Kolkata (b) Mumbai  
 (c) Chennai (d) Tamil Nadu  
 (e) Kerala

163. In December 2020, Hawker culture of which country was added to Unesco list of intangible cultural heritage of Humanity?  
 (a) France (b) Sri Lanka  
 (c) Singapore (d) Moscow  
 (e) Thailand
164. PM Modi laid the foundation stone of the Light House Project(LHPs). It is related to---  
 (a) IT (b) Electricity  
 (c) Housing (d) Defence  
 (e) Water
165. Who heads the National Disaster Management Authority?  
 (a) Defence minister (b) Home minister  
 (c) Prime minister (d) Finance minister  
 (e) None of these
166. Who makes rules and regulations for the Scheduled Commercial Banks in India?  
 (a) IRDA (b) SEBI  
 (c) RBI (d) Finance ministry  
 (e) None of these
167. Who is the CEO of Twitter?  
 (a) Biz Stone (b) Mark Zuckerberg  
 (c) Evan Williams (d) Jack Dorsey  
 (e) None of these
168. The maturity period of the Senior Citizen saving scheme is?  
 (a) 2 years (b) 3 years  
 (c) 4 years (d) 6 years  
 (e) 5 years
169. How many seats in West Bengal Lok Sabha assembly?  
 (a) 300 (b) 280  
 (c) 305 (d) 315  
 (e) 294
170. Adivasi Mela 2021 was organised in?  
 (a) Lucknow, U.P. (b) Bokaro, Jharkhand  
 (c) Bhubaneswar, Odisha (d) Chandigarh  
 (e) Delhi
171. Which company launched the India's first field ready electric tractor "Tiger Electric"?  
 (a) Tesla (b) Tata  
 (c) Mahindra & Mahindra (d) Sonalika  
 (e) Eicher motors
172. Shahid Parwez play which instrument?  
 (a) Tabla (b) Shenai  
 (c) Sitar (d) Flute  
 (e) Pianos
173. "The Struggle of My Life" is the autobiography of -----  
 (a) Sachin Tendulkar (b) Lal Krishna Advani  
 (c) Sachin Chauhan (d) Chetan Bhagat  
 (e) Malala Yousafzai
174. Total Banking Ombudsmen in India, in 2019 is-  
 (a) 22 (b) 20  
 (c) 19 (d) 23  
 (e) 18
175. In Feb. 2020 which of the following organisation released India energy outlook 2021?  
 (a) Bureau of Energy Efficiency  
 (b) International Energy Limited  
 (c) Indian Energy Exchange Limited  
 (d) Ministry of Power  
 (e) None of these
176. According to the electoral bond scheme 2018, the validity of the electoral bonds has been defined as-----  
 (a) 30 days (b) 15 days  
 (c) 45 days (d) 55 days  
 (e) 60 days
177. How many general insurance company is there in India?  
 (a) 33 (b) 32  
 (c) 36 (d) 35  
 (e) 31
178. Finance Ministry has reduced residency limit of Indian citizens to form One Person Company from 182 days to \_\_\_\_\_ days.  
 (a) 100 (b) 150  
 (c) 180 (d) 120  
 (e) 90
179. Which of the following bank has introduced a kisan credit card loan scheme for fishermen in Tamil Nadu?  
 (a) ICICI Bank (b) SBI  
 (c) Axis Bank (d) Canara Bank  
 (e) Indian Bank
180. Which company is known as Cleaning up NPA?  
 (a) Asset Reconstruction Company  
 (b) Asset Cleaning Company  
 (c) Reconstruction Company  
 (d) Restoring Company  
 (e) None of these
181. In Jan 2021, which of the following has launched a new feature "safe pay" to make digital payments more secure and reduced online payment frauds?  
 (a) Google Pay  
 (b) Phone Pay  
 (c) Airtel Payments Bank  
 (d) India Post Payment Bank  
 (e) Paytm Payment Bank
182. What does "F" stands for in the scheme 'PMFBY'?  
 (a) Fabric (b) Font  
 (c) Frontier (d) Fasal  
 (e) Foreign
183. As per India Energy Outlook 2020-21, India will surpass EU to become \_\_\_\_\_ largest energy consumer by 2030?  
 (a) Second (b) Fourth  
 (c) Third (d) Fifth  
 (e) Sixth
184. Which organisation is setting up world's largest zoo in Jamnagar district of Gujarat?  
 (a) Tata industries (b) Ministry of tourism  
 (c) Reliance industries (d) Ministry of animal welfare  
 (e) None of these
185. Which of the following years, the basel-1 accord was introduced?  
 (a) 1995 (b) 1972  
 (c) 2000 (d) 1988  
 (e) 2005

186. Which country plans to set up first nuclear reactor on the moon?  
 (a) India (b) China  
 (c) USA (d) UAE  
 (e) Russia
187. Which of the following auctions the G-sec (Government Security) ?  
 (a) Central Government (b) Finance Ministry  
 (c) RBI (d) SEBI  
 (e) None of the above
188. \_\_\_\_\_ is an account maintained in foreign currency with an Authorised Dealer Category - I bank.  
 (a) FCNR (b) Current Account  
 (c) SB Account (d) EEFC  
 (e) None of these
189. Which of the following allowed Non-Resident Indians (NRI) to subscribe to NPS?  
 (a) SEBI (b) EXIM Bank  
 (c) GOI (d) RBI  
 (e) None of these
190. What is the 'Letter of Credit' (L/c) also known as?  
 (a) Transferable Documentary Credit  
 (b) Documentary Credit  
 (c) Transferable Credit  
 (d) Countervailing Credit  
 (e) None of these

## HINTS & EXPLANATIONS

**Sol. (1-5):**

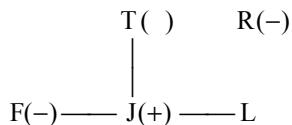
Monday	8	C
Tuesday	6	D
Wednesday	14	F
Thursday	20	B
Friday	29	E
Saturday	17	A

1. (c)
2. (d) Tuesday
3. (e) 14-Wednesday
4. (c)
5. (c) Friday

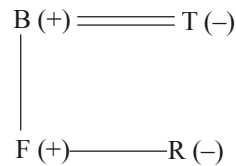
**Sol. (6-10):**

Date	7th	13th	24th
<b>Month</b>			
April (30)	Q (Watch)	P (Water)	R (Juice)
May (31)	V (Bike)	T (Toy)	X (Pen)
June (30)	S (Butter)	W (Mobile)	U (Head Phone)

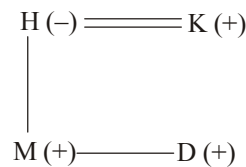
6. (a) 7. (b) 8. (d) 9. (e) 10. (c)
11. (b) D # J \* T \$ R @ L can be drawn diagrammatically by using the given information:  
 'D # J' means X is the sister of Y,  
 'J \* T' means J is the son of T,  
 'T \$ R' means T is the husband of R,  
 'R @ L' means R is the mother of L.  
 Thus, we can definitely say F is the sister of L.



12. (b) R # D \* B \$ T  
 'R # F' means R is the sister of D,  
 'D \* B' means D is the son of B,  
 'B \$ T' means B is the husband of T.  
 Thus, (b) option correctly indicates the relationship 'R' is the daughter of T'.



13. (b) P \* H @ D \* K  
 'P \* H' means P is the son of H,  
 'H @ D' means H is the mother of D,  
 'D \* K' means D is the son of K.  
 Thus, we can say K is the father of M.



**Sol. (14-18):**

**Change in words:** The words are arranged as per reverse dictionary order. i.e. the word that will come last in the dictionary is rearranged at first. The words are placed at extreme left end.

**Change in numbers:** The numbers are changed as per ascending order of sum of their digits. i.e. the number whose sum of digits is lowest will be taken first for rearrangement. The numbers are placed at extreme right end.

**Note:** Change in only one word and one number takes place simultaneously at each step.

**Final Output:**

**Input:** request 52 demand 21 buy 10 trust 32 once 84 share 45

**Step I:** trust request 52 demand 21 buy 32 once 84 share 45 10

**Step II:** share trust request 52 demand buy 32 once 84 45 10 21

**Step III:** request share trust 52 demand buy once 84 45 10 21 32

**Step IV:** once request share trust demand buy 84 45 10 21 32 52

**Step V:** demand once request share trust buy 84 10 21 32 52 45

**Step VI:** buy demand once request share trust 10 21 32 52 45 84

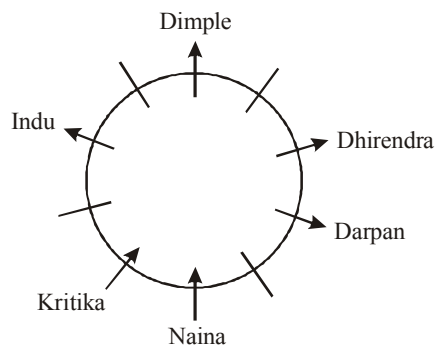
14. (c) request is third to the left of 52 in step III.
15. (d) 52 and 32 come between trust and once in step II, thus the required sum is 84.
16. (b) demand 45 represents the elements at extreme ends in step V.
17. (c) "once request share trust demand buy 84 45 10 21 32 52" represents the step IV.  
Step IV: once request share trust demand buy 84 45 10 21 32 52
18. (d) 9th element from the right end in step III - 52  
8th element from left end in step VI - 21  
Difference = 52 - 21 = 31

**Sol. (19-23) :**

It is not possible in case 2 so eliminated.

1. Dimple sits opposite to Naina and does not face towards the centre.
2. Naina sits immediate right of Kritika who sits second to the left of Indu.
3. Indu does not face towards the centre.
4. Naina faces a direction opposite to Dhirendra who sits fourth to the right of Kritika and faces outside.
5. Naina does not face away from the centre.
6. Dhirendra does not sit to the left of Dimple. It is not possible in case 2 so eliminated.
7. Only two people sit between Darpan and Dimple.
8. Darpan who does not face inside, is an immediate neighbour of Dhirendra.
9. No one sits to the immediate left of Dhirendra.
10. The number of people sitting between Indu and Dimple is the same as the number of people sitting between Darpan and Naina.

The final arrangement is given below-

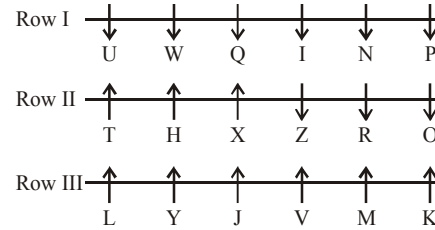


19. (b) Two people sit between Darpan and Indu though there are four seats between them.
20. (a) Six people are sitting on a circular table as four seats are vacant

21. (e) The correct answer is no one.
22. (c) No one sits immediately left of Kritika as the seat is vacant.

23. (b)

**Sol. (24-28):**



24. (c) K is sitting fourth to the right of Y.
25. (a) H is related to Z in the same way
26. (e) All are at corners of the rows except 'J'. Hence, J does not belong to the group.
27. (a) X is sitting second to the right of R.
28. (c) Q is fourth from the east in row I.
29. (c) A person hears with his 'ear'. But as per the given information, 'ear' is called 'nose'. So, a person will hear with the 'nose'.
30. (d) 'Chillies' are green in colour and as given, 'Chillies' are bananas. So, 'bananas' are green in colour.
31. (e) Selected letters of the given word are R, H, A and E. By using each letter only once we can make the following words:  
1. HEAR                      2. HARE  
This is more than one.

**Sol. (32-33) :**

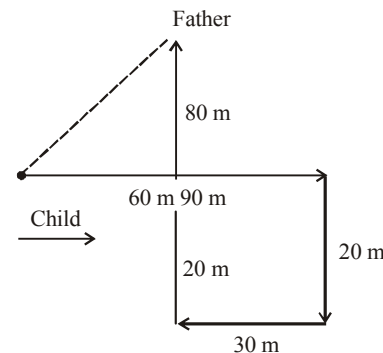
Colours of the sky → ki la fa so                      ... (i)  
rainbow colours → ro ki                                      ... (ii)

[from (i) and (ii)]  
∴ Colours → ki....  
sky high rocket → la pe jo                                      ... (iii)  
from (i) and (iii), sky → la  
the rocket world → pe so ne  
from (i) and (iv), the → so .                                      ... (iv)  
and from (iii) and (iv), rocket → pe

32. (c) colours sky high → ki la jo
33. (c) 'the' represents only 'so'.

**Sol. (34-35):**

Assume all are facing the centre





34. (b) Required distance =  $\sqrt{80^2 + 60^2}$   
 $\sqrt{6400 + 3600} = \sqrt{10000} = 100$  m
35. (c) Total distance = 90 + 20 + 30 + 100 = 240 m
36. (e)  $Z \geq K \dots (i); K > T \dots (ii), T = F \dots (iii)$   
 combining all three,  
 $Z \geq K > T = F$   
 Hence, I and II both are true.
37. (b)  $K > B \dots (i), B \leq D \dots (ii), D < K \dots (iii)$   
 From (i),  $B < K$ . Hence II is true but I is not true.
38. (c)  $N = R \dots (i), R \leq M \dots (ii), M \geq J \dots (iii)$   
 From (i) and (ii), we get  $N = R \leq M$   
 $\Rightarrow N \leq M$ . Hence either I or II is true.
39. (a)  $S \geq T \dots (i), T \leq R \dots (ii), R < M \dots (iii)$   
 From (ii) and (iii), we get  $T \leq R < M$   
 $\Rightarrow T < M$  or  $M > T$ . Hence I is true and II is not true.
40. (a) From I: There are two possible arrangements.  
 (a) P T R S  
 (b) P T R S  
 So, either T or R  
 From II: There are two possible arrangements.  
 (a) Q T S  
 (b) T S Q  
 Again either T or S  
 Combining I and II
41. (a) Using Statement I:  
 Using Statement II:  
 So, by Using Statement I alone, we can say that E sits on the immediate right of A.
42. (d) Even by using both the statements, we are not able to determine who is tallest as we do not have the exact idea about the height of Q.
43. (b) From I: EAST or ETSA  
 Hence I alone is not sufficient.  
 From II: Only EAST is possible.  
 Hence II alone is sufficient.
44. (e) A decision is taken when it is felt that it would be accepted by most of the people concerned. Hence I is implicit. II is also implicit as the reason behind the need.
45. (d) It is not necessary that price rise be these on the mind of the govt while taking the decision. Hence I nor II is implicit. In fact, the truth is that our petroleum companies are running losses even after the drop international prices.
46. (b) I is weak because it is not relevant to "complete ban", II is a strong argument because banning mining in such a scenario will lead us into great trouble.
47. (e) I is strong as improved ambience is desirable. II is strong because regimentation of adults is undesirable.
48. (b) I is easier said than done. Even I makes sense only when the govt goes for II.

49. (b) I is impractical...Water is essential for life to go on. II is sensible, especially when using ground water is proving to be uneconomical.
50. (d) All teachers are lawyers (A)  $\rightarrow$  conversion  $\rightarrow$  Some lawyers are teachers (I). Hence IV follows. Now, Some doctors are lawyers + Some lawyers are teachers = I + I = No conclusion. Hence I does not follow. Some engineers are lawyers (I)  $\rightarrow$  conversion  $\rightarrow$  Some lawyers are engineers + All engineers are businessmen = I + A = I = Some lawyers are businessmen  $\rightarrow$  conversion Some businessmen are lawyers Hence II follows. But, All teachers are lawyers + Some lawyers are businessmen = A + I = No conclusion. Hence III does not follow.
51. (d) Shop T has the lowest sales of 920 and 280 in both B and E.
52. (d) 15% of 4000 = 600
53. (d) S has the highest sale of cars i.e., 13670.
54. (c) Both P & Q sells  $300 \times 7 = 2100$  &  $440 \times 7 = 3080$ .
55. (b)
56. (d) Average number of players who play Football and Rugby

$$\frac{1}{2}[(17 + 13)\% \text{ of } 4200] = \frac{1}{2} \times 4200 \times \frac{30}{100} = 630$$

57. (a) Number of players who play Rugby  
 $= 4200 \times \frac{13}{100} = 546$   
 Number of female players who play Rugby  
 $= 2000 \times \frac{10}{100} = 200$   
 $\therefore$  Number of male players who play Rugby  
 $= 546 - 200 = 346$   
 Number of female players who play Lawn Tennis.  
 $= 2000 \times \frac{22}{100} = 440$   
 $\therefore$  Required difference =  $440 - 346 = 94$
58. (c) Number of female cricketers  
 $= 2000 \times \frac{40}{100} = 800$   
 Number of male Hockey players  
 $= \frac{4200 \times 10}{100} - \frac{2000 \times 15}{100} = 420 - 300 = 120$   
 $\therefore$  Required ratio =  $800 : 120 = 20 : 3$
59. (b) Number of male players who play Football, Cricket and Lawn Tennis  
 $= (17 + 35 + 25)\% \text{ of } 4200 - (13 + 40 + 22)\% \text{ of } 2000$   
 $= 4200 \times \frac{77}{100} - 2000 \times \frac{75}{100} = 3234 - 1500 = 1734$

60. (a) Number of male players who play Rugby

$$= 4200 \times \frac{13}{100} - 200 = 346$$

Number of players who play Lawn Tennis

$$= 4200 \times \frac{25}{100} = 1050$$

$$\therefore \text{Required percentage} = \frac{346}{1050} \times 100 \approx 33$$

Sol. (61-65) :

Trains	Speed	Time	Distance	Notes
A	$\frac{1000}{14} \frac{500}{7}$ km/h	14 hrs	$\frac{1120 \times 100}{112}$ = 1000 km	Trains A starts its journey at 5 A.M and reaches its destination at 7 P.M. same day. Train C covers 12% more distance than train A
B	$\frac{2250}{16} \frac{1125}{8}$ km/h	14 + 12 hrs = 16 hrs	1000 + 1250 = 2250 km	Train B takes 2 hrs more than train A Train B covers equal to the distance covered by trains A and D together
C	$16 \times 5 = 80$ km/h	14 hrs	$80 \times 14$ = 1120 km	Speed of train C is five times of the time taken by train B. Train C takes equal time as train A
D	$\frac{1250}{21}$ km/h	$\frac{14 \times 150}{100}$ 21 hrs	$\frac{1000 \times 125}{100}$ 1250 km	Train D takes 50% more time than A Train D covers 25% more distance than train A
E	$\frac{80 \times 100}{80}$ 100 km/h	$\frac{1000}{100}$ 10 hrs	$\frac{1250 \times 80}{100}$ 1000 km	Distance covered by train E is 20% less than train D Speed of train C is 20% less than that of train E

61. (c) Speed of train C = 80 km/h

$$\text{Speed of train A} = \frac{500}{7} \text{ km/h}$$

$$\text{Required ratio} = 80 : \frac{500}{7} = 28 : 25$$

62. (e) Speed of train D after increment

$$= \frac{1250}{21} \times \frac{120}{100} = \frac{500}{7} \text{ km/h}$$

$$\text{Required time} = \frac{1000}{\frac{500}{7}} = 14 \text{ hrs}$$

63. (d) Total distance covered by A, C and E together

$$= 1000 + 1120 + 1000 = 3120 \text{ km}$$

$$\text{Required average} = \frac{3120}{3} = 1040 \text{ km}$$

64. (a) Speed of B =  $\frac{1125}{8}$  km/h

$$\text{Speed of D} = \frac{1250}{21} \text{ km/h}$$

Required ratio

$$= \frac{1125}{8} : \frac{1250}{21} = 189 : 80$$

65. (b) Total distance covered by all trains together

$$= 1000 + 2250 + 1120 + 1250 + 1000 = 6620 \text{ km}$$

$$\text{Total time taken by all trains together} = 14 + 16 + 14 + 21 + 10 = 75 \text{ hrs}$$

Required average speed

$$= \frac{6620}{75} = 88.26 \text{ km/h}$$

Sols. (66-70):

Number of mobile phones

$$\frac{1650 \times 24}{100} = 396$$

Number of pen drives

$$= 1650 \times \frac{1}{6} = 275$$

Number of calculators

$$= 1650 \times \frac{14}{100} = 231$$

Number of televisions and washing machines = 748

Number of washing machines = T + 50

$$T + W = 748$$

$$T + T + 50 = 748$$

$$2T = 748 - 50 = 698$$

$$\therefore T = \frac{698}{2} = 349$$

$$\text{Washing machines} = 349 + 50 = 399$$

66. (b) Ratio  $\frac{399}{231} \frac{133}{77} \frac{19}{11} 19:11$
67. (a) Number of pen drives which are not defective  
 $= 275 \times \frac{76}{100} = 275 \times 76 = 209$
68. (b) Required %  
 $= \frac{349}{231} \times 100 = \frac{349}{630} \times 100$   
 $= 55.39\% = 55\%$
69. (c) Difference =  $349 + 396 - 231$   
 $= 745 - 231 = 514$
70. (d) Total number of pen drives, calculators and washing machines =  $275 + 231 + 399 = 905$
71. (d) For solving this question, we want two equations in terms of P and Q.
72. (e) Combining both the statements together.  
 Let the labelled price be ₹ 100.  
 Now, SP of the suitcase = 125% of 100 = ₹ 125
- $\therefore$  Labelled price =  $\frac{2000}{125} \times 100 = ₹ 1600$
- $\therefore$  CP of the suitcase =  $1600 \times \frac{3}{4} = ₹ 1200$
73. (d) Here, we do not know the type of triangle. If the triangle is right-angled, then the height can be determined with the help of statement I alone.
74. (e) Combining both the statements together  
 Rate of interest =  $\frac{800}{2 \times 8000} \times 100 = 5\%$
75. (d) Here distance is not given.
76. (c) Let Ms. Pooja Pushpan's monthly salary = ₹ . x  
 According to the question,  
 13% of the x = ₹ 8554  
 $\Rightarrow x = ₹ \left( \frac{8554 \times 100}{13} \right) = ₹ 65800$   
 Total monthly investment in percentage  
 $= 13 + 23 + 8\% = 44$   
 $\therefore$  Total monthly investment  
 $= 44\% \text{ of } ₹ 65800 = ₹ \left( \frac{44 \times 65800}{100} \right) = ₹ 28952$   
 $\therefore$  Total annual investment  
 $= ₹ (12 \times 28952) = ₹ 347424$
77. (e) Using SI =  $\frac{Prt}{100}$   
 $3584 = \frac{P \times 7 \times 4}{100}$

$\Rightarrow P = ₹ 12800$   
 Now, amount got by CI

$$A = P \left( 1 + \frac{r}{100} \right)^n = 12800 \left( 1 + \frac{4}{100} \right)^2$$

$$= 12800 \times 1.04 \times 1.04 = ₹ 13844.48$$

Hence, CI =  $A - P = 13844.48 - 12800 = ₹ 1044.48$

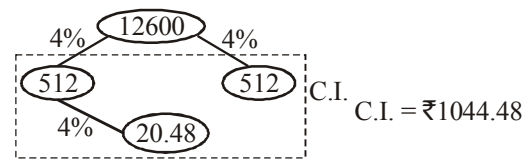
Time 4 years, rate 7% p.a., I = 3584

$$7 \times 4 \rightarrow 3584$$

$$1 \rightarrow 126$$

$$100 \rightarrow 12600$$

Principal = ₹ 12600



78. (b) Let Ramesh had sum of ₹ P.

$$\text{Then, } \frac{2}{3}P \times \frac{12 \times 6}{100} - \frac{1}{3}P \left( 1 + \frac{10}{100} \right)^2 - \frac{1}{3}P = 5610$$

$$\frac{48P}{100} - \frac{1}{3}P \left( \frac{121}{100} \right) - \frac{1}{3}P = 5610$$

$$\frac{48P}{100} - \frac{121P - 100P}{300} = 5610$$

$$\Rightarrow \frac{144P - 21P}{300} = 5610$$

$$\Rightarrow \frac{165P}{300} = 5610$$

$$\Rightarrow P = \frac{5610 \times 300}{165}$$

$$\Rightarrow P = 34 \times 300$$

$$\Rightarrow P = ₹ 10,200$$

79. (b) S.P. for the first car = ₹ 5,400 and profit = 20%

$$\therefore \text{C.P. for the first car} = \frac{100}{120} \times 5,400 = ₹ 4,500$$

S.P. for the second car = ₹ 3,300 and profit = 10%

$$\therefore \text{C.P. for second car} = \frac{100}{110} \times 3,300 = ₹ 3,000$$

$$\text{and loss} = \frac{75}{8}\%$$

S.P. of three cars =  $5,400 + 3,300 + 4,350 = ₹ 13,050$

$$\therefore \text{Total C.P. for the three cars} = \frac{100 \times 8}{725} \times 13,050$$

$$= 14,400$$

$$\therefore \text{C.P. for third car} = 14,400 - 4,500 - 3,000 = ₹ 6,900$$

80. (a) C.P. of car =  $\frac{90}{100} \times 4,50,000 = ₹ 4,05,000$

C.P. of scooter =  $\frac{1}{10} \times 4,05,000 = ₹ 40,500$

MP of scooter = ₹ 50,625

C.P. of car and scooter =  $4,05,000 + 40,500 = 4,45,500$

S.P of car and scooter

=  $\frac{130}{100} \times 4,45,500 = ₹ 5,79,150$

S.P of car =  $5,79,150 - \frac{110}{100} \times 40,500$

=  $5,79,150 - 44,500 = 5,34,600$

Required ratio  $\frac{50,625}{5,34,600} = \frac{25}{264}$

81. (a) Let the ages of these are A, B, C, D, E  
 So,  $A + B + C = 84 \times 3 = 252$   
 And  $A + B + C + D = 80 \times 4 = 320$   
 So  $D = 320 - 252 = 68$ , so  $E = 68 + 3 = 71$   
 Now  $B + C + D + E = 79 \times 4 = 316$   
 $(A + B + C + D) - (B + C + D + E) = 320 - 316$   
 So,  $A - E = 4$ , so  $A = 71 + 4 = 75$

82. (a) Let the 4 members are  $x_1, x_2, x_3$ , daughter  
 Sum of 4 members five years ago  
 =  $x_1 + x_2 + x_3 + \text{daughter} = 94$   
 After 5 years,  
 $x_1 + x_2 + x_3 + \text{daughter} = 114$  ... (1)  
 daughter + daughter in law = 92  
 Daughter = 92 - daughter in law  
 Put this eqn. ... (1)  
 $x_1 + x_2 + x_3 + 92 - \text{Daughter in law} = 114$   
 $x_1 + x_2 + x_3 = 22 + \text{Daughter in law}$   
 So, the required difference is 22 years.

83. (c) Let the money of C be  $x$ .  
 According to the question,

Total money of B =  $x + x + 50\% = x + \frac{50x}{100} = \frac{3x}{2}$

Total money of A =  $2 \times \frac{3x}{2} = 3x$

Average money of three persons = 12000

∴ Total money of three Persons =  $12000 \times 3 = 36000$

∴  $3x + \frac{3x}{2} + x = 12000 \times 3$

$\frac{6x}{2} + \frac{3x}{2} + \frac{2x}{2} = 36000$

$\frac{11x}{2} = 36000$

∴  $x = \frac{36000 \times 2}{11} = \frac{72000}{11}$

Now, money of A

=  $3x = 3 \times \frac{72000}{11} = \frac{216000}{11}$

84. (c) Let pipes A and B takes  $t$  minutes together.  
 A will take  $(t + 3)$  minutes to fill the tank

B will tank  $\left(t - \frac{64}{3}\right)$  minutes to fill the tank

$\frac{1}{t+3} + \frac{3}{3t+64} = \frac{1}{t}$

$\frac{3t+64+3t+9}{t+3} = \frac{1}{t}$

$6t^2 + 73t = 3t^2 + 64t + 9t + 192$

$3t^2 - 192 = 0$

$(t^2 - 64) = 0$

$t = 8$  minutes

85. (a) Since the trains are 100 km apart, and the trains are travelling towards each other at 40 and 60 km/hr, the trains will collide in one hour. The bird must be flying at 90 km/hr during this time, so the bird travels 90 km.
86. (c) Area of the field =  $13.5 \times 2.5 = 33.75 \text{ m}^2$   
 Area covered by the rectangular tank  
 =  $5 \times 4.5 = 22.50 \text{ m}^2$   
 Area of the field on which the earth dug out is to be spread =  $33.75 - 22.50 = 11.25 \text{ m}^2$   
 Let the required height be  $h$ .  
 Then,  $11.25 \times h = 5 \times 4.5 \times 2.1$   
 or  $h = 4.2 \text{ m}$

87. (a)

649.6875 1299.375 866.25 346.5 99 22 4

$\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   
 $\times \frac{2}{1}$   $\times \frac{2}{3}$   $\times \frac{2}{5}$   $\times \frac{2}{7}$   $\times \frac{2}{9}$   $\times \frac{2}{11}$

So, 4 will come at the place of question mark (?).

88. (d)

30 16 10 8 8 9 10.5

$\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   $\uparrow$   
 $\times \frac{1}{2}$  1  $\times \frac{1}{2}$  2  $\times \frac{1}{2}$  3  $\times \frac{1}{2}$  4  $\times \frac{1}{2}$  5  $\times \frac{1}{2}$  6

So, 10.5 will come at the place of question mark (?).

89. (c) Let the quantity of the liquid in the vessel = 8 litre. Then, quantity of water in the liquid = 3 litre, and quantity of syrup in the liquid = 5 litre. Suppose x litre of the mixture is drawn off and replaced with water. Then, quantity of water in the

$$\text{new mixture} = 3 - \frac{3x}{8} \quad x$$

$$\text{Quantity of syrup in the new mixture} = 5 - \frac{5x}{8}$$

Given that in the new mixture, quantity of water = quantity of syrup

$$\Rightarrow 3 - \frac{3x}{8} \quad x \quad 5 - \frac{5x}{8} \quad \Rightarrow \frac{10x}{8} \quad 2 \Rightarrow \frac{5x}{4} \quad 2$$

$$\Rightarrow x \quad \frac{8}{5}$$

i.e., if the quantity of the liquid is 8 litre, 8/5 litre of the mixture needs to be drawn off and replaced with water so that the mixture may be half water and half syrup.

It means 1/5 of the mixture needs to be drawn off and replaced with water so that the mixture may be half water and half syrup.

90. (c)  $n(E) = {}^5C_3 + {}^4C_3 + {}^3C_3 = 10 + 4 + 1 = 15$   
 $n(S) = {}^{12}C_3 = 220$

$$P = \frac{n(E)}{n(S)} = \frac{15}{220} \quad \frac{3}{44}$$

$$\text{Required probability} = 1 - \frac{3}{44} \quad \frac{41}{44}$$

91. (d) I.  $x^2 - 8x + 15 = 0$   
 $\Rightarrow x^2 - 5x - 3x + 15 = 0$   
 $\Rightarrow x(x - 5) - 3(x - 5) = 0$   
 $\Rightarrow (x - 3)(x - 5) = 0$   
 $\therefore x = 3 \text{ or } 5$

II.  $y^2 - 13y + 40 = 0$   
 $y^2 - 5y - 8y + 40 = 0$   
 $y(y - 5) - 8(y - 5) = 0$   
 $y = 5, 8$

Hence,  $x \leq y$

92. (e) I.  $x^2 - 3x + 2 = 0$   
 $\Rightarrow x^2 - 2x - x + 2 = 0$   
 $\Rightarrow x(x - 2) - 1(x - 2) = 0$   
 $\Rightarrow (x - 1)(x - 2) = 0$   
 $\therefore x = 1 \text{ or } 2$

II.  $3x^2 - 7x + 4 = 0$   
 $\Rightarrow 3x^2 - 4x - 3x + 4 = 0$   
 $\Rightarrow (3x - 4)(x - 1) = 0$

$$x = \frac{4}{3} \text{ or } 1$$

Hence, no relation can establish.

93. (a) I.  $2x^2 - 9x + 10 = 0$   
 $\Rightarrow 2x^2 - 4x - 5x + 10 = 0$   
 $\Rightarrow (2x - 5)(x - 2) = 0$

$$\Rightarrow x = \frac{5}{2} \text{ or } 2$$

II.  $5y^2 + 17y + 6 = 0$   
 $5y^2 + 15y + 2y + 6 = 0$   
 $5y(y + 3) + 2(y + 3) = 0$

$$y = -3, -\frac{2}{5}$$

Hence,  $x > y$

94. (c) I.  $2x^2 - x - 15 = 0$   
 $2x^2 - 6x + 5x - 15 = 0$   
 $2x(x - 3) + 5(x - 3) = 0$   
 $x = 3, -5/2$

II.  $7y^2 - 19y + 10 = 0$   
 $7y^2 - 14y - 5y + 10 = 0$   
 $7y(y - 2) - 5(y - 2) = 0$

$$y = 2, \frac{5}{7}$$

Hence, No relation can establish.

95. (a) I.  $\frac{15}{\sqrt{x}} \quad \frac{9}{\sqrt{x}} \quad 11\sqrt{x}$

$$\frac{15}{\sqrt{x}} \quad \frac{9}{\sqrt{x}} \quad 11\sqrt{x}$$

$$\therefore x = \frac{24}{11} = 2.18$$

II.  $\frac{\sqrt{y}}{4} \quad \frac{5\sqrt{y}}{12} \quad \frac{1}{\sqrt{y}}$

$$\frac{3\sqrt{y}}{12} \quad \frac{5\sqrt{y}}{12} \quad \frac{1}{\sqrt{y}}$$

$$8y = 12$$

$$y = 1.5$$

$$\therefore x > y$$

96. (d)  $? = \frac{68 \times 1288}{100} + \frac{26 \times 734}{100} - 215$

$$= 875.84 + 190.84 - 215$$

$$= 876 + 191 - 215 = 852 \approx 850$$

97. (b)  $? = (32.05)^2 - (18.9)^2 - (11.9)^2$

$$= 1027 - 357 - 141 = 1027 - 498 = 529 \approx 530$$

98. (b)  $? = \frac{6578 \times 15}{67 \times 6} = 250$

$$99. (e) ? = \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{169}$$

$$= \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{170} = 1038 \approx 1040$$

$$100. (c) \sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$$

$$\therefore ? = \frac{\sqrt{5687} \times \sqrt{1245} \times 13}{\sqrt{689}}$$

$$= \frac{75.4 \times 35.2 \times 13}{26.2} \approx 1320$$

101. (b) Refer to the first paragraph, the hint can be drawn from the lines, In just the last decade, AI has evolved with unprecedented velocity - from beating human champions at Jeopardy! In 2011, to vanquishing the world's number one player of Go, to decoding proteins last year

AI can leapfrog us toward eradicating hunger, poverty and disease - opening up new and hitherto unimaginable pathways for climate change mitigation, education and scientific discovery.

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

102. (d) Refer to the second paragraph, the hint can be drawn from the lines, Yet, the study in Nature also finds that AI can actively hinder 59 - or 35% - of SDG targets. For starters, AI requires massive computational capacity, which means more power-hungry data centres - and a big carbon footprint. Then, AI could compound digital exclusion. Robotics and AI companies are building intelligent machines that perform tasks typically carried out by low-income workers: self-service kiosks to replace cashiers, fruit-picking robots to replace field workers, etc.; but the day is not far when many desk jobs will also be edged out by AI, such as accountants, financial traders and middle managers.

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

103. (e) Refer to the second paragraph, the hint can be drawn from the lines, Already, AI has helped increase crop yields, raised business productivity, improved access to credit and made cancer detection faster and more precise. It could contribute more than \$15 trillion to the world economy by 2030, adding 14% to global GDP. Google has identified over 2,600 use cases of "AI for good" worldwide. A study published in Nature reviewing the impact of AI on the Sustainable Development Goals (SDGs) finds that AI may act as an enabler on 134 - or 79% - of all SDG targets. We are on the cusp of unprecedented technological breakthroughs that promise to positively transform our world in ways deeper and more profound than anything that has come before.
- Hence, **option (e)** is the right answer choice.

104. (c) Refer to the third paragraph, the hint can be drawn from the lines, Without clear policies on reskilling workers, the promise of new opportunities will in fact create serious new inequalities. Investment is likely to shift to countries where AI-related work is already established, widening gaps among and within countries. Together, Big Tech's big four - Alphabet/Google, Amazon, Apple and Facebook - are worth a staggering \$5 trillion, more than the GDPs of just about every nation on earth. In 2020, when the world was reeling from the impact of the COVID-19 pandemic, they added more than \$2 trillion to their value. The fact is, just as AI has the potential to improve billions of lives, it can also replicate and exacerbate existing problems, and create new ones.

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

105. (d) Refer to the third paragraph, the hint can be drawn from the lines, The fact is, just as AI has the potential to improve billions of lives, it can also replicate and exacerbate existing problems, and create new ones. Consider, for instance, the documented examples of AI facial recognition and surveillance technology discriminating against people of colour and minorities or how an AI-enhanced recruitment engine, based on existing workforce profiles, taught itself that male candidates were preferable to female.
- Hence, **option (d)** is the right answer choice.

106. (b) **'Reeling from'**: If you are reeling from a shock, you are feeling extremely surprised or upset because of it. I'm still reeling from the shock of hearing about it. **Synonyms**: be shaken, be shocked, be stunned, be staggered.

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

107. (e) Refer to the first paragraph, the hint can be drawn from the lines, The long-term effects of the coronavirus outbreak in the U.S. are still anybody's guess, but most economists and experts are predicting significant negative impacts on GDP, jobs growth and even population sizes.

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

108. (b) Refer to the first paragraph, the hint can be drawn from the lines, The new 2020 number of a predicted 374 million people living in the U.S. by 2046 is a revision of the 2018 estimate of 384 million. A big factor in the new number is that economists expect birth rates in the country to decline, correlating with higher unemployment rates and an increase in anxiety within the country associated with the pandemic and economic consequences.

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

109. (e) Refer to the second paragraph, the hint can be drawn from the lines, Total GDP and labor productivity are expected to decline as well. In 2018, the projected average annual growth in labor productivity was expected to grow by 1.5 percent between the years

- 2031 and 2050. Now, economists expect that growth number to fall to just 1.3 percent - a small numerical decrease that could amount to larger quality of life consequences in the U.S. Growth in GDP is also expected to fall, going from a 2018 projection of 1.9 percent average annual growth to 1.6 percent between the years 2031 and 2050. According to the Wall Street Journal, these dips in projections are all expected to have a significant impact on the already astronomical national debt in the U.S.
- Hence, **option (e)** is the right answer choice.
110. (c) Correlating: have a mutual relationship or connection, in which one thing affects or depends on another.  
Hence, **option (c)** is the right answer choice.
111. (a) **Accelerate:** increase in rate, amount, or extent.  
**Decelerate:** reduce or cause to reduce in speed.  
Hence, **option (a)** is the right answer choice.
112. (c) 'Vociferous, Killing' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (c)** is the right answer choice.
113. (a) 'Misuse, Bankroll' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (a)** is the right answer choice.
114. (e) 'Unique, Anywhere' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (e)** is the right answer choice.
115. (d) 'Dissatisfaction, Stressed' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (d)** is the right answer choice.
116. (b) 'Contemporary, Disparity' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (e)** is the right answer choice.
117. (d) 'Underline, Aggressively' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (d)** is the right answer choice.
118. (c) 'Shrug, Values' is the correct pair of words that fit in the sentence to make it grammatically and contextually correct. Hence, **option (d)** is the right answer choice.
119. (c) The sentence narrates about Corona Virus's impact so the possessive adjective used here should be – 'its' and not – 'their' in (C). Hence, **option (c)** is the right answer choice.
120. (e) The sentence is correct and there is no correction required. Hence, **option (e)** is the right answer choice.
121. (c) The sentence shows media role currently. Also the sentence is in present tense. Therefore, no verb can be written in past tense. Therefore, – 'enabled' must be replaced with – 'enables' to make the sentence grammatically correct. Hence, **option (c)** is the right answer choice.
122. (a) 'Pulled out' must be followed by – 'from' and not – 'in'. Pull out means to withdraw from some place. Hence, **option (a)** is the right answer choice.
123. (d) The correct phrase is – 'in the wake of' and not?'in the waked of'. 'Wake' here is used as a noun and not a verb. Hence, **option (d)** is the right answer choice.
124. (c) 'Separate' should be used instead of 'separated' to make the sentence grammatically correct and contextually meaningful. Hence, **option (c)** is the right answer choice.
125. (d) 'Between' is always followed by 'and' in order to connect two things or persons. Hence, **option (d)** is the right answer choice.
126. (a) Both B-F and A-E can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:  
B-F: The objection is useful insofar as it checks sorry remnants of western cultural arrogance as well as 'knowledge imperialism'.  
A-F: The contemporary crisis within western democracies is deep rooted.  
Hence, **option (a)** is the right answer choice.
127. (c) Both B-F and C-D can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:  
B-F: He has been making a weekly visit to the hide to document animal behavior.  
C-D: Perhaps TikTok food trends best explain how the year influenced our cooking.  
Hence, **option (c)** is the right answer choice.
128. (c) A-F, B-D, and C-E can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:  
A-F: For in order to effectively counter its critics, the establishment must first confront itself.  
B-D: Even when regions perform relatively better in one developmental dimension, it does not often translate into all round development.  
C-E: Tamil Nadu is home to a higher share of lower caste entrepreneurs compared to Maharashtra or Gujarat.  
Hence, **option (c)** is the right answer choice.
129. (d) Both B-F and A-E can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:  
B-F: Processes of human development and economic dynamism can go hand-in-hand and not necessarily be sequential.  
A-E: Relatively higher wages could be offset by access to better quality of labour inputs for competitive accumulation.
130. (b) B-F, A-E and C-D can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:  
B-F: A framework to bring less-known feature films to limelight, with the help of digital platforms, will be an incentive to film-makers striving to narrate stories from the remote corners of the country.

- A-E: The present regime withdrew from the commitments made to the UNHRC by its predecessor on constructive engagement with the international community.
- C-D: A parliamentary panel has recommended that the government should offer a more clear-cut definition of what constitutes 'unfair' trade practice. Hence, **option (b)** is the right answer choice.
131. (c) Both B-D and C-E can be joined to form a grammatically and contextually correct sentence. The sentences thus formed are:  
B-D: The parts of your brain that process your emotions and memories use olfactory data, linking them closely.  
C-E: After getting my taste back, the first swirl of peanut butter chocolate ice cream made me feel complete in a way nothing else.
132. (e) **Abstention:** restraint in one's consumption; abstinence.  
**Temperance:** abstinence from alcoholic drink.  
**Sobriety:** the state of being sober.  
Hence, **option (e)** is the right answer choice.
133. (b) **Rampant:** especially of something unwelcome) flourishing or spreading unchecked.  
**Uncontrolled:** not controlled.  
**Pervasive:** (especially of an unwelcome influence or physical effect) spreading widely throughout an area or a group of people  
Hence, **option (b)** is the right answer choice.
134. (d) **Imprimatur:** a person's authoritative approval.  
Hence, **option (d)** is the right answer choice.
135. (c) **Diligence:** careful and persistent work or effort.  
**Assiduous:** constant or close attention to what one is doing.  
Hence, **option (c)** is the right answer choice.
136. (a) The correct sequence is **DBECA**. The fifth sentence will be **A**. Hence, **option (a)** is the right answer choice.
137. (b) The correct sequence is **DBECA**. The second sentence will be **B**. Hence, **option (b)** is the right answer choice.
138. (d) The correct sequence is **DBECA**. The first sentence will be **D**. Hence, **option (d)** is the right answer choice.
139. (c) The correct sequence is **DBECA**. The fourth sentence will be **C**. Hence, **option (c)** is the right answer choice.
140. (e) The correct sequence is **DBECA**. The third sentence will be **E**. Hence, **option (e)** is the right answer choice.
141. (d) 142. (a) 143. (a) 144. (a) 145. (c)  
146. (e) 147. (d) 148. (b) 149. (d) 150. (e)  
151. (d) 152. (b) 153. (e) 154. (c) 155. (e)  
156. (c) 157. (c) 158. (d) 159. (d) 160. (c)  
161. (d) 162. (c) 163. (c) 164. (c) 165. (c)  
166. (c) 167. (d) 168. (e) 169. (e) 170. (c)  
171. (d) 172. (c) 173. (c) 174. (a) 175. (b)  
176. (b) 177. (a) 178. (d) 179. (e) 180. (a)  
181. (c) 182. (d) 183. (c) 184. (c) 185. (d)  
186. (c) 187. (c) 188. (d) 189. (d) 190. (b)



# IBPS Clerk Prelim Solved Paper - 2020

Held on 5th-Dec-2020

(Based on Memory)

Time : 60 minutes

Max. Marks : 100

## REASONING ABILITY

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

Eight cartons are placed one above the another. Only two cartons are placed between carton  $C_3$  and  $C_6$ . Only one carton is placed between carton  $C_6$  and  $C_4$ . Only two cartons are placed between carton  $C_4$  and  $C_7$ . Carton  $C_7$  is placed below carton  $C_4$ . Three cartons are placed between  $C_1$  and  $C_5$ , both  $C_1$  and  $C_5$  are placed above carton  $C_6$ . Carton  $C_8$  is placed below carton  $C_7$ . Not more than one carton is placed between carton  $C_1$  and  $C_2$ .

- How many cartons are there between cartons  $C_6$  and  $C_1$ ?  
(a) None (b) One  
(c) Two (d) Three  
(e) More than three
- Which of the following carton is placed immediately above carton  $C_5$ ?  
(a)  $C_8$  (b)  $C_3$   
(c)  $C_4$  (d)  $C_6$   
(e) None of these
- Which of the following carton is placed at the bottommost position?  
(a)  $C_8$  (b)  $C_3$   
(c)  $C_4$  (d)  $C_6$   
(e) None of these
- Which of the following carton is placed immediately below carton  $C_2$ ?  
(a)  $C_8$  (b)  $C_3$   
(c)  $C_4$  (d)  $C_6$   
(e) None of these
- How many cartons are there between carton  $C_8$  and carton  $C_4$ ?  
(a) None (b) One  
(c) Two (d) Three  
(e) More than three
- In the word 'UNDERGROUND' all consonants are written as their preceding letter and all vowels are written as their following letters. Then, how many letters repeated in the new arrangement?  
(a) One (b) Two  
(c) Four (d) Three  
(e) More than four

**DIRECTIONS (Qs. 7-11):** Study the following information carefully and answer the question given below.

Six girls are arranged according to their weight in descending order from left to right. E is not the heaviest among all. A is

heavier than F and C. F is heavier than B and D but not heavier than E. B and C are not the lightest among all. A is not just heavier than F. E is heavier than C, who is not the 3rd heaviest among all. Weight of the 2nd lightest girls is 15 kg. Total weight of B and C is 40 kg. 2nd heaviest girl is twice heavy to the one who is 2nd lightest. C is just lighter than F. Total weight of all the girls are 150 kg.

- What may be the possible weight of F?  
(a) 28 kg (b) 38 kg  
(c) 24 kg (d) 25 kg  
(e) None of these
- The number of girls is heavier than F is same as the number of girls lighter than \_\_\_\_?  
(a) A (b) C  
(c) D (d) B  
(e) None of these
- If D is 10 kg lighter than B and F is 3 kg heavier than C then what is the weight of A?  
(a) 23 kg (b) 43 kg  
(c) 30 kg (d) 47 kg  
(e) None of these
- Four of the following five are alike in a certain way so form a group. Find the one who does not belong to that group?  
(a) E - C (b) F - A  
(c) D - C (d) B - D  
(e) C - B
- Which of the following statement is true?  
(a) Only one girl is lighter to C  
(b) D is the lightest among all  
(c) A is lighter to D  
(d) Weight of A is 50 kg  
(e) None is true

**DIRECTIONS (Qs. 12-15):** In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Give answer

- If only conclusion I is true
  - If only conclusion II is true
  - If either conclusion I or II is true
  - If neither conclusion I nor II is true
  - If both conclusions I and II are true
12. **Statements:**  $F > R \geq T$   $E \quad W \geq Q$

**Conclusions:**

- $Q \geq T$
- $E \quad F$

13. **Statements:**  $W = G \geq H \geq T = C \leq V \leq B$   
**Conclusions:**  
**I.** C G  
**II.** T G
14. **Statements:**  $K > I \geq G > F \leq T = R$   
**Conclusions:**  
**I.** R F  
**II.** K T
15. **Statements:**  $K < G \leq D = C = R \leq Y$   
**Conclusions:**  
**I.** K D  
**II.** C G
16. In the given number '72415683' how many such numerals will remain at the same position, when arranged in ascending order from left to right?  
 (a) More than four (b) Four  
 (c) Two (d) Three  
 (e) One
- 
- DIRECTIONS (Qs. 17-21):** Study the following information carefully and answer the question given below.
- Eight persons A, B, C, D, E, F, G and H were born in the month of August of 4 different years i.e. 1990, 1991, 1992 and 1993 either on 12th or 25th but not necessarily in the same order. E was born in the even numbered year but not the eldest among all. More than two persons were born between E and D. H was born just after D. There are as many persons born before H as same as born after B. G was born before F and after A and they all were born on the same date.
17. How many persons born before C?  
 (a) One (b) None  
 (c) Two (d) More than four  
 (e) Four
18. In which of the following year B was born?  
 (a) 1990 (b) 1993  
 (c) Either 1990 or 1993 (d) 1991  
 (e) 1992
19. How many persons were born between A and F?  
 (a) Three (b) Five  
 (c) Two (d) One  
 (e) None of these
20. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?  
 (a) D (b) B  
 (c) E (d) H  
 (e) None of these
21. The number of persons born between G and H is same as between \_\_\_\_ and \_\_\_\_?  
 (a) E, F (b) B, H  
 (c) C, B (d) D, G  
 (e) None of these

**DIRECTIONS (Qs. 22-25):** In each question below are given some statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer :

22. **Statements :** Only a few Pen are Paper. Only a few Eraser are Video. All Eraser are Copy.  
**Conclusions :**  
**I.** All Pen being Eraser is a possibility.  
**II.** Some Pen are not Copy.  
 (a) If both conclusions I and II follow.  
 (b) If only conclusion II follows  
 (c) If only conclusion I follows  
 (d) If neither conclusion I nor II follows  
 (e) If either conclusion I or II follows
23. **Statements :** Only a few Dog are Cat. No Cat is Rat. All Rat are Hen.  
**Conclusions :**  
**I.** All Dog can be Rat.  
**II.** Some Hen are not Cat.  
 (a) If both conclusions I and II follow.  
 (b) If either conclusion I or II follows  
 (c) If only conclusion I follows  
 (d) If neither conclusion I nor II follows  
 (e) If only conclusion II follows
24. **Statements :** Some Apple are not Mango. Some Mango are Banana.  
**Conclusions :**  
**I.** Some Banana are Apple.  
**II.** No Banana is Apple.  
 (a) If only conclusion I follows  
 (b) If either conclusion I or II follows  
 (c) If both conclusions I and II follow  
 (d) If neither conclusion I nor II follows  
 (e) If only conclusion II follows
25. **Statements :** Only Banana is Apple. Some Banana are Grapes.  
**Conclusions :**  
**I.** Some Apple being Grapes is a possibility.  
**II.** All Banana can be Apple.  
 (a) If both conclusions I and II follow  
 (b) If only conclusion I follows  
 (c) If either conclusion I or II follows  
 (d) If neither conclusion I nor II follows.  
 (e) If only conclusion II follows

**DIRECTIONS (Qs. 26-30):** Study the following information carefully and answer the question given below.

Eight Girls  $G_5, G_2, G_3, G_6, G_1, G_4, G_7$  and  $G_8$  purchase some products one after another but not necessarily in the same order. At most two girls purchase before  $G_3$ . Only one girl purchase between  $G_5$  and  $G_3$ .  $G_7$  purchase just before  $G_8$ . One girl purchase between  $G_7$  and  $G_5$ .  $G_1$  purchase just before  $G_2$ .  $G_4$  purchase before  $G_6$  and after  $G_2$ .

26. How many girls purchase after  $G_5$ ?  
 (a) None (b) Two  
 (c) More than three (d) One  
 (e) None of these
27. Who among the following purchase just after  $G_6$ ?  
 (a)  $G_2$  (b)  $G_3$   
 (c)  $G_4$  (d)  $G_7$   
 (e) None of these
28. If all the girls are arranged in alphabetical order from top to bottom starting from  $G_5$ , then find how many girls remains at the same position (excluding  $G_5$ )?  
 (a) One (b) None  
 (c) Two (d) Four  
 (e) More than Four
29. Who among the following purchase exactly between  $G_5$  and  $G_3$ ?  
 (a)  $G_2$  (b)  $G_4$   
 (c)  $G_1$  (d)  $G_8$   
 (e) None of these
30. How many girls purchase between  $G_2$  and  $G_7$ ?  
 (a) Five (b) Four  
 (c) Three (d) None  
 (e) Two
31. How many pairs of letters are there in the word 'ELEPHANT' which has as many letters between them as we have in the English alphabetical series (from both forward and backward direction)?  
 (a) Three (b) One  
 (c) Two (d) None  
 (e) More than three

**DIRECTIONS (Qs. 32-35):** Study the following arrangement carefully and answer the questions given below.

**2 9 1 8 1 9 5 8 6 3 6 4 2 5 2 9 5 2 6 4 5 1 4 9 4 7 3 2 7 2 5 8**

32. How many 3's is there in the above arrangement, each of which is immediately preceded by a digit which has a numerical value 6 or more than 6?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three
33. Which of the following number is sixth to the left of the twenty second from the left end of the above arrangement?  
 (a) 3 (b) 9  
 (c) 2 (d) 7  
 (e) None of these
34. If all the even digits are removed from the above arrangement then, which of the following digit will be eleventh from the right end of the arrangement?  
 (a) 9 (b) 5  
 (c) 1 (d) 3  
 (e) None of these
35. How many such 1's is there in the above arrangement, each of which is immediately followed by a perfect square of an odd number?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three

**NUMERICAL ABILITY**

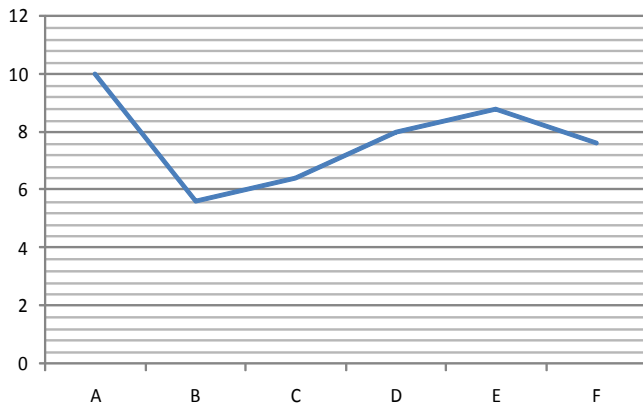
36. A pipe can fill a tank in 2 hours but due to a hole at the bottom it takes 6 hours to fill the tank. How much time will it take to empty the tank if it was full?  
 (a) 2 hours (b) 3 hours  
 (c) 4 hours (d) 5 hours  
 (e) None of these
37. Income of Sohit and Mohit is ₹ 3500 and ₹ 2100 respectively. The value of their expenditure is same, and the ratio of their savings is 5 : 1, what will be the expenditure of Sohit?  
 (a) ₹ 1750 (b) ₹ 2000  
 (c) ₹ 2500 (d) ₹ 1700  
 (e) ₹ 2100
38. Find the difference in simple interest and compound interest on an amount of ₹40,000 at 5% per annum at the end of 3 years?  
 (a) ₹ 203 (b) ₹ 250  
 (c) ₹ 305 (d) ₹ 340  
 (e) None of these
39. The ratio of present ages of Nikhil, Deepu and Mohit is 2 : 3 : 5 and the average of present age of Nikhil and Deepu is 30 years and that of Deepu and Mohit is 48 years. What will be the sum of their ages after three years?  
 (a) 140 (b) 127  
 (c) 129 (d) 132  
 (e) 145
40. The probability of passing an examination for Garvhit and Lalit are 0.7 and 0.8 respectively. Find the probability that at least one of them pass the examination.  
 (a) 0.84 (b) 0.94  
 (c) 0.74 (d) 0.65  
 (e) 0.75

**DIRECTIONS (Qs. 41-45):** In the following questions, there are two equations in  $p$  and  $q$ . You have to solve both the equations and give answer

- (a) if  $p > q$  (b) if  $p < q$   
 (c) if  $p \geq q$  (d) if  $p \leq q$   
 (e) if  $p = q$  or there is no relation between  $p$  and  $q$ .
41. I.  $2p^2 - 3p - 1 = 0$   
 II.  $2q^2 - 5q - 3 = 0$
42. I.  $p^2 - 21p - 110 = 0$   
 II.  $q^2 - 17q - 72 = 0$
43. I.  $p^2 - 4 = 0$   
 II.  $q^2 - 6q - 8 = 0$
44. I.  $p^2 + 9p - 22 = 0$   
 II.  $2q^2 - 7q - 6 = 0$

45. I.  $6p^2 - 5p + 1 = 0$   
 II.  $15q^2 - 11q + 2 = 0$
46. The population of a town is decreased by 20% in the first year and then increased by 40% in the second year. Find the population of the town at the end of the second year, if two years ago it was 75,000?  
 (a) 80,000 (b) 84,000  
 (c) 74,000 (d) 66,000  
 (e) 85,000
47. A shopkeeper marked up a TV 60% above the cost price and allows successive discounts of 25% and 15% on it. If the difference between profit earned and discount given is ₹ 1160 then find the marked price of the TV?  
 (a) ₹ 3000 (b) ₹ 3200  
 (c) ₹ 2400 (d) ₹ 3600  
 (e) ₹ 3300
48. The downstream speed of a boat is 6 km/hr more than its upstream speed and the ratio of the speed of the boat in still water to the speed of the stream is 17 : 6. Find the total time taken by boat to travel 23 km downstream and 16.5 km upstream?  
 (a)  $7\frac{1}{2}$  hr. (b) 5 hr.  
 (c) 7 hr. (d)  $9\frac{1}{2}$  hr.  
 (e) 8 hr.
49. A container contains a mixture of milk and water in the ratio 4 : 3. If 14 litre of the mixture is taken out and replaced with water, then the new ratio of milk to water becomes 1 : 1. Find the initial quantity of mixture in the container.  
 (a) 112L (b) 120L  
 (c) 140L (d) 96L  
 (e) 100L
50. The ratio of the present age of A to B is 9 : 4 and the average of the present age of B and C is 36 years. If four years ago, the sum of ages of A and B is 57 years, then find the difference between the present age of A and C.  
 (a) 5 years (b) 7 years  
 (c) 9 years (d) 8 years  
 (e) 4 years

**DIRECTIONS (Qs. 51-55):** The line graph given below shows the total number of articles sold by six (A, B, C, D, E & F) shopkeepers in August 2020. Read the data carefully and answer the questions.



51. The total article sold by C is what percent less than the total article sold by D?

- (a) 20% (b) 25%  
 (c) 15% (d) 10%  
 (e) None of these
52. In September 2020 total article sold by B and F is 24 and 30 more than previous month respectively, then find the total number of article sold by B and F in September 2020?  
 (a) 170 (b) 180  
 (c) 186 (d) 189  
 (e) 198
53. Find the average number of article sold by A, C and F?  
 (a) 80 (b) 95  
 (c) 110 (d) 85  
 (e) 60
54. Total article sold by E is what percent of total article sold by B and C together?  
 (a) 80% (b)  $73\frac{1}{3}\%$   
 (c) 75% (d) 50%  
 (e)  $65\frac{1}{3}\%$
55. If the total article sold by B becomes 25% less than what is the number of article now, sold by B?  
 (a) 42 (b) 45  
 (c) 32 (d) 38  
 (e) 27

**DIRECTIONS (Qs. 56-70):** What will come in the place of question mark in following questions.

56.  $(? \div 7 \div 5) \times 13 = 97 - 305$   
 (a) 710 (b) 660  
 (c) 440 (d) 600  
 (e) 560
57.  $(?)^{(6 \times 16 + 48 - 1)} = 124 \times 340$   
 (a) 4 (b) 6  
 (c) 8 (d) 2  
 (e) 3
58.  $\frac{126}{3} + \frac{25}{7} \times 7 = ? - 7$   
 (a) 30 (b) 40  
 (c) 60 (d) 36  
 (e) 82
59.  $\frac{\sqrt[3]{2197}}{13} = \sqrt{121} - ? + 23$   
 (a) 19 (b) 18  
 (c) 11 (d) 16  
 (e) 12
60.  $197 + 184 + 60 = (?)^2$   
 (a) 10 (b) 21  
 (c) 30 (d) 31  
 (e) 22

61.  $23.5 \times 24 + 1890 \div 7 = (34)^2 - ?$   
 (a) 351 (b) 347  
 (c) 343 (d) 334  
 (e) 322
62.  $37 \times 29 + 16560 \div 9 + 121 = ?$   
 (a) 3320 (b) 3120  
 (c) 3370 (d) 3034  
 (e) 3460
63.  $27.5 \times 15 + 4440 \div 6 - 147 \times 5 = ?$   
 (a) 103.5 (b) 91.5  
 (c) 417.5 (d) 423.5  
 (e) 311.5
64.  $60\% \text{ of } ? = \sqrt{500 \times 22} \quad 80\% \text{ of } 4250$   
 (a) 80 (b) 120  
 (c) 150 (d) 180  
 (e) 240
65.  $? \times 27 \times 40 \div 24 = \frac{2300}{264} \times \frac{594}{115}$   
 (a) 1 (b) 2  
 (c) 3 (d) 4  
 (e) 5
66.  $? + 50 \times 13 = 45\% \text{ of } 800 + 220 + 420$   
 (a) 300 (b) 350  
 (c) 400 (d) 450  
 (e) 250
67.  $12\% \text{ of } ? + 12.5\% \text{ of } 960 = 12 \times 16$   
 (a) 840 (b) 960  
 (c) 800 (d) 600  
 (e) 400
68.  $? \times 15 + 20\% \text{ of } 450 = 360$   
 (a) 12 (b) 20  
 (c) 24 (d) 16  
 (e) 18
69.  $75\% \text{ of } \frac{3}{4} \times \frac{8}{9} \times 3600 \quad ? \quad 1500$   
 (a) 300 (b) 400  
 (c) 250 (d) 480  
 (e) 540
70.  $? \% \text{ of } 800 + 500 = 4 \times 171$   
 (a) 28 (b) 24  
 (c) 36 (d) 40  
 (e) 23

## ENGLISH LANGUAGE

**DIRECTIONS (Qs. 71-75):** Read the passage and answer the questions that follow:

Finance Minister Nirmala Sitharaman's fresh set of measures, to spur consumer demand and capital expenditure include an interestingly designed tweak to the LTC allowances of government employees. Her **reckoning** is that these would lend a <sup>1</sup> 73,000 crore demand spurt to prop up the ailing economy in the second half of this year. This could rise beyond ₹1-lakh

crore if private sector employers offered similar LTC incentives. With industrial output slipping for the sixth month in a row in August, the clamour for new stimulus measures had been growing ahead of a particularly bleak festive season. But this package, which will cost the exchequer about 0.2% of GDP, taking overall fiscal support through the pandemic to 1.7% of GDP, may not be as persuasive as may have been envisaged. Enhancing the Centre's capital expenditure in specific sectors by ₹25,000 crore from the extant level of ₹4.12-lakh crore is **laudable**. But pandemic restrictions have affected the ability to get new projects going. Till August, just about ₹1.34-lakh crore of the budgeted capex had been spent. The same problem plagues the ₹12,000 crore offered as an interest-free 50-year loan to States for capital spending over the next six months. While States have been allowed to use these loans to pay off existing contractors' dues, the amounts on offer are unlikely to have an impact; ₹2,000 crore has been set aside for States that manage to complete three of four reforms mandated in the earlier Atmanirbhar Bharat package, in order to get additional borrowing leeway. Only some States may qualify for this. Too many conditions also pervade the consumption push. Linking LTC perks of government staff who have not availed them yet due to restricted travel during the pandemic to spending on non-travel items is an innovative nudge. But requiring them to spend three times their return ticket fares under LTC on goods and services attracting at least 12% GST from GST-registered vendors may be too prescriptive and overlooks the reluctance towards discretionary spending due to low visibility on the economy's prospects. Eligible employees may find the scheme complex and too expensive to avail. One hopes the government has more in its quiver to expedite recovery. Waiting too long for the pandemic to ease before loosening the purse strings further could extend the pain. The focus should not just be on conjuring a trickle-down stimulus from those with their jobs and savings intact but also on relief measures for those without. Even the IMF has been urging countries to spend now to diminish the damage. Avoiding spending now to maintain fiscal discipline and prevent a rating downgrade seems sensible, but if the underlying edifices of the country's growth story crumble in the process, a future downgrade will become inevitable.

71. What are the calculations made by the Finance Minister Nirmala Sitharaman for spurring the consumer demand?  
 (a) The new set of measures will provide ₹73,000 crore demand thus supporting the debilitated economy  
 (b) The measure will improve India-China relations  
 (c) This could rise beyond ₹1-lakh crore if private sector employers offered similar LTC incentives.  
 (d) Both (a) and (c)  
 (e) None of the above
72. Which of the following statements cannot be inferred from the given passage?  
 (a) The ongoing projects have been affected by the impacts of the pandemic.  
 (b) Waiting more for easing up of the pandemic to loosen the purse strings will exacerbate the pain.

- (c) The IMF has urged countries to start spending in order to mitigate the damage.
- (d) It is sensible to avoid spending for maintenance of fiscal discipline and preventing a downgrade rating
- (e) Due to the underlying edifice of India's growth story fall apart in the process, the future upgrade boom will be inevitable.
73. Which of the following correctly state the benefits provided to the states?
- (I) States can use these loans for paying off current contractor's dues.
- (II) ₹ 2,000 crore are set aside for the states capable of managing the three out of four reforms as mandated in the previous Atmanirbhar Bharat Package.
- (III) All states can apply for this loan.
- (a) Only II (b) Both II and III
- (c) Both I and II (d) All of the above
- (e) None of these
74. Which of the following is similar in meaning with **RECKONING** as highlighted in the passage?
- (a) Exaltation (b) Compliance
- (c) Resolution (d) Evaluating
- (e) Halting
75. Which of the following words is most opposite in meaning with **LAUDABLE** as highlighted in the passage?
- (a) Deplorable (b) Blameworthy
- (c) Creditable (d) Shameful
- (e) Vividness

**DIRECTIONS (Qs. 76-77):** Choose the word(s) that have been correctly spelt and mark your answer accordingly.

76. (a) Beteken (b) Pedantic
- (c) Paltable (d) Upbread
- (e) Renegede
77. (a) Belyie (b) Armata
- (c) Succur (d) Encroachment
- (e) Imperturable

**DIRECTIONS (Qs. 78-82):** In the following passage, some blanks are given and against each blank five alternative words are suggested. Choose the correct alternative to complete the passage in a meaningful way.

A vaccine, under ordinary circumstances, has (78) \_\_\_\_\_ for the realms of health and medicine. But these are not ordinary times. The transformation of Covid-19 vaccines into a tool of diplomacy is a (79) \_\_\_\_\_ to the uniqueness of the hour. It has been reported that Israel obtained the release of one of its prisoners after agreeing to finance an unspecified number of coronavirus vaccines for its (80) \_\_\_\_\_, Syria. India, too, has not been averse to use 'vaccine diplomacy' to its advantage. New Delhi has (81) \_\_\_\_\_ its regional and international standing by sending free Covid-19 medication to Nepal, Sri Lanka, Bangladesh, Myanmar, Afghanistan and Seychelles. That India remains keen to maintain this momentum was (82) \_\_\_\_\_ from the prime minister's welcome

comments that were made at a recent workshop that was attended by health and diplomatic representatives of a number of Asian nations, including — significantly — Pakistan.

78. (a) Subversions (b) Implications
- (c) Expressions (d) Denunciation
- (e) Disapproval
79. (a) Sudden (b) Existence
- (c) Absolute (d) Despotic
- (e) Testament
80. (a) Reticence (b) Particular
- (c) Adversary (d) Hesitancy
- (e) Exemption
81. (a) Bolstered (b) Emphasized
- (c) Encouraged (d) Disrepair
- (e) Exhorted
82. (a) Successful (b) Fortify
- (c) Disreputable (d) Evident
- (e) Reinforce

**DIRECTIONS (Qs. 83-85):** 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).

83. Argumentative Indians must **marginals (A)** as climate change activists and Urban Naxals to **protect (B)** the rights of the planet and the fate of **return (C)**, items of little concern to the present **ruling (D)** class.
- (a) A-B (b) C-D
- (c) A-C (d) A-D
- (e) No change required
84. Mr Modi's idea of a shared **pedestal (A)** to take on the pandemic has the **broad (B)** to become a truly **potential (C)**, representative Asian alliance, leading to a possible reduction in mutual **animosities (D)**.
- (a) B-C (b) A-D
- (c) C-D (d) A-C
- (e) No change required
85. Considering the mentally ill weird and abnormal and **representation (A)** them, coupled with the media **segregating (B)** of mental illness as violent and paranormal, **perpetuates (C)** the myth that mental illness and **motherhood (D)** do not mix.
- (a) B-C (b) A-C
- (c) B-D (d) A-B
- (e) No change required

**DIRECTIONS (Qs. 86-90):** Read each part of the sentence to find out if there is any error. The error, if any, will be in one part of the sentence. Find the error and mark your answer. If all parts are correct, your answer is (e).

86. The ESOP option ensures that there (A)/ is also an opportunity to generate (B)/wealth and be participants in PhonePe's (C)/growth story for all employee. (D)/ No Error (E)
- (a) A (b) B
- (c) C (d) D
- (e) E

87. After joining another group, (A) the kid realizes that (B)/toppling the government may (C)/not be so a good idea. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
88. The employees are drawing salaries (A)/of 2012 and the management (B)/is not willing to no initiate even (C)/preliminary talks on wage revision. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
89. In an important order on poor people's (A)/rights to housing and the government (B)/responsibility, the court asked the state government (C)/to change its approach to the issue of housing. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
90. "Narayanasamy should have highlighted (A)/the achievements of his government, (B)/if any instead criticising the (C)/Centre and the opposition parties. (D)/ No Error (E)  
 (a) A (b) B  
 (c) C (d) D  
 (e) E

**DIRECTIONS (Qs. 91-95):** Which of the Phrases (a), (b), (c) and (d) should replace the highlighted phrase in the sentence to make it grammatically correct? If the sentence is correct and there is no correction required, mark (e) as the answer.

91. Though he had no hard data, his intuition was that increasing humanness in a robot was positive only **up to certain point**.  
 (a) Up to a several amounts  
 (b) Up to the certain amount  
 (c) Up to certain amounts  
 (d) Up to a certain amount  
 (e) No correction required
92. The top court had **sought a response from** the state government on two petitions seeking separate probe by the CBI and the NIA into the alleged murder.  
 (a) Sought a response to  
 (b) Sought a response off  
 (c) Sought a response of  
 (d) Sought a response about  
 (e) No correction required
93. The social media major had removed approximately 130 accounts originating in Iran based on **informations provided** to the company by the FBI.  
 (a) Informations so provided  
 (b) Information provided  
 (c) Information has provided  
 (d) Information so provided  
 (e) No correction required
94. Mukesh Goel **also attends** the meeting said that his party was in support of the proposal to save new Chandni Chowk Hanuman Temple.  
 (a) Too attends  
 (b) Also attending  
 (c) Also attended  
 (d) Too attending  
 (e) No correction required
95. **A good leaders has** a hunger to further your knowledge and he understands everything in your business.  
 (a) A good leaders is  
 (b) A good leader has  
 (c) Good leaders is  
 (d) All good leaders are  
 (e) No correction required

**DIRECTIONS (Qs. 96-100):** Rearrange the paragraph and answer the following questions.

- (A) In the past, challenges to its powers were met with brutal crackdowns.  
 (B) Myanmar's military has been one of the most consistent enemies of democracy.  
 (C) Still, the junta has continued to face popular resistance.  
 (D) Than Shwe, the then leader of the country, suppressed them but had to offer a new Constitution in 2008 as a compromise.  
 (E) The crackdown on the protests of August 8, 1988 did not prevent the 'saffron revolution' of 2007 — protests led by Buddhist monks.
96. What is the **THIRD** sentence after rearrangement?  
 (a) A (b) D  
 (c) E (d) C  
 (e) B
97. What is the **SECOND** sentence after rearrangement?  
 (a) B (b) A  
 (c) C (d) E  
 (e) D
98. What is the **FIFTH** sentence after rearrangement?  
 (a) D (b) E  
 (c) C (d) A  
 (e) B
99. What is the **FOURTH** sentence after rearrangement?  
 (a) E (b) D  
 (c) C (d) A  
 (e) B
100. Which sentence does not change its position after rearrangement?  
 (a) D (b) E  
 (c) B (d) C  
 (e) A

## HINTS & EXPLANATIONS

Sol. (1-5) :

Boxes
C <sub>1</sub>
C <sub>2</sub>
C <sub>3</sub>
C <sub>4</sub>
C <sub>5</sub>
C <sub>6</sub>
C <sub>7</sub>
C <sub>8</sub>

1. (e) 2. (c) 3. (a) 4. (b) 5. (d)  
 6. (e) UNDERGROUND  
 VMEFQFQPVME

Sol. (7-11):

- |    |    |    |    |    |   |
|----|----|----|----|----|---|
| A  | E  | F  | C  | B  | D |
| 47 | 30 | 28 | 25 | 15 | 5 |
7. (a) 8. (b) 9. (d) 10. (b) 11. (b)  
 12. (a) I.  $Q \geq T$  (False) II.  $E < F$  (True)  
 13. (c) I.  $C = G$  (False) II.  $T < G$  (False)  
 14. (b) I.  $R > F$  (True) II.  $K > T$  (False)  
 15. (e) I.  $K < D$  (True) II.  $C > G$  (True)  
 16. (d) 7 

2
2

 4 1 

5
5

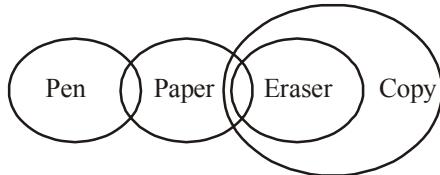
6
6

 8 3  
 1 2 3 4 5 6 7 8

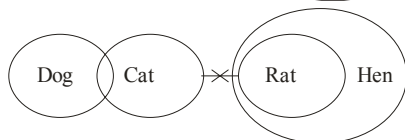
Sol. (17-21):

Years	Month	Date	Persons
1990	August	12	D
		25	H
1991		12	C
		25	A
1992		12	E
		25	G
1993	12	B	
	25	F	

17. (c) 18. (b) 19. (a) 20. (d) 21. (c)  
 22. (c)



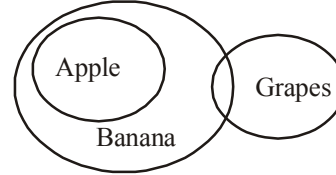
23. (e)



24. (b)



25. (d)



Sol. (26-30):

Girls
G <sub>1</sub>
G <sub>2</sub>
G <sub>3</sub>
G <sub>4</sub>
G <sub>5</sub>
G <sub>6</sub>
G <sub>7</sub>
G <sub>8</sub>

26. (e) 27. (d) 28. (d) 29. (b) 30. (b)  
 31. (b) E L E P H A N T  
 32. (c) "63" "73"  
 33. (b) "9"  
 34. (d) "3"  
 35. (b) "19"  
 36. (b) Pipe can fill the tank = 2 hrs.

Due to hole, pipe takes time to fill the tank = 6 hrs.  
 Let capacity of tank is 6 units (LCM of 2 and 6)

∴ Pipe can fill the tank per hour  $\frac{6}{2}$  3 unit

∴ Pipe can fill the tank per hour when there is a hole at the bottom  $\frac{6}{6}$  1 unit

∴ Hole will empty the tank per hour = 3 - 1 = 2 unit.

Required time to empty the tank  $\frac{6}{2}$  3 hrs.

37. (a) Let expenditure of Sohiti is Rs. x.  
 ATQ,

$$\frac{3500 - x}{2100 - x} = \frac{5}{1} \quad (\text{Income} - \text{Expenditure} = \text{Savings})$$

$$\Rightarrow 3500 - x = 10500 - 5x$$

$$\Rightarrow 4x = 10500 - 3500 \quad 7000$$

$$\Rightarrow x = 1750$$

So, expenditure of Sohiti is ₹ 1750.

38. (c) S.I. for 3 years  $\frac{40000 \times 5 \times 3}{100}$  ₹ 6000

C.I. for 3 years

$$A \left[ \left( 1 + \frac{r}{100} \right)^n - 1 \right] = 40000 \left[ \left( 1 + \frac{5}{100} \right)^3 - 1 \right]$$



- $$= 40000 \left[ \left( \frac{105}{100} \right)^3 - 1 \right] = 40000 \times 0.157625$$

$$= ₹ 6305$$
 Required difference = 6305 - 6000 = ₹ 305.
39. (c) Let Ratio of present ages of Nikhil, Deepu and Mohit  $2x : 3x : \sqrt{x}$
- Average of present age of Nikhil and Deepu = 30 years  
 $\therefore$  Present age of Nikhil and Deepu =  $30 \times 2 = 60$  years  
 Average of present age of Deepu and Mohit = 48 years  
 $\therefore$  Present age of Deepu and Mohit =  $48 \times 2 = 96$  years
- Present age of Nikhil =  $60 \times \frac{2x}{5x} = 24$  yrs.  
 Present age of Deepu =  $60 - 24 = 36$  yrs.  
 Present age of Mohit =  $\frac{36}{3x} \times 5x = 60$  yrs.
- Required sum after three years  
 $= (24 + 3) + (36 + 3) + (60 + 3) = 27 + 39 + 63 = 129$  yrs.
40. (b) The probability of passing an examination for Garvhit = 0.7.  
 The probability of passing an examination for Lalit = 0.8.  
 Probability that at least one of them pass the examination =  $1 - \text{Probability that both fails the examination}$   
 Required probability =  $1 - (0.3 \times 0.2) = 0.94$ .  
 $\therefore$  Required probability = 0.94.
41. (d) I.  $\Rightarrow 2p^2 - 2p - p - 1 = 0$   
 $\Rightarrow 2p(p-1) - 1(p-1) = 0$   
 $\Rightarrow p = \frac{1}{2}, 1$
- II.  $\Rightarrow 2q^2 - 2q - 3q - 3 = 0$   
 $\Rightarrow 2q(q-1) - 3(q-1) = 0$   
 $\Rightarrow q = \frac{3}{2}, 1$   
 $\therefore p \leq q$ .
42. (b) I.  $\Rightarrow p^2 - 10p - 11p - 110 = 0$   
 $\Rightarrow p(p - 10) - 11(p - 10) = 0$   
 $\Rightarrow p = -10, -11$
- II.  $\Rightarrow q^2 - 9q - 8q - 72 = 0$   
 $\Rightarrow q(q - 9) - 8(q - 9) = 0$   
 $\Rightarrow q = -9, -8$   
 $\therefore p > q$

43. (d) I.  $p = \pm 2$   
 II.  $\Rightarrow q^2 - 2q - 4q - 8 = 0$   
 $\Rightarrow q(q-2) - 4(q-2) = 0$   
 $\Rightarrow q = 2, 4$   
 $\therefore p \leq q$
44. (e) I.  $p^2 + 9p - 22 = 0$   
 $\Rightarrow p^2 + 11p - 2p - 22 = 0$   
 $\Rightarrow (p+11)(p-2) = 0$   
 $\Rightarrow p = -11, 2$
- II.  $2q^2 - 7q - 6 = 0$   
 $\Rightarrow 2q^2 - 4q - 3q - 6 = 0$   
 $\Rightarrow 2q(q-2) - 3(q-2) = 0$   
 $\Rightarrow (q-2)(2q-3) = 0$   
 $\Rightarrow q = 2, \frac{3}{2}$   
 No relation.
45. (e) I.  $6p^2 - 5p - 1 = 0$   
 $\Rightarrow 6p^2 - 3p - 2p - 1 = 0$   
 $\Rightarrow 3p(2p - 1) - 1(2p - 1) = 0$   
 $\Rightarrow p = \frac{1}{2} \text{ or } -\frac{1}{3}$
- II.  $15q^2 - 11q - 2 = 0$   
 $\Rightarrow 15q^2 - 6q - 5q - 2 = 0$   
 $\Rightarrow 3q(5q - 2) - 1(5q - 2) = 0$   
 $\therefore q = -\frac{2}{5} \text{ or } -\frac{1}{3}$   
 $\therefore$  No relation can be established.
46. (b) Required population =  $75,000 \times 0.8 \times 1.4 = 84,000$ .
47. (b) Let the CP of TV be ₹ 100x  
 Then MP = ₹ 160x  

$$SP = 160x \times \frac{3}{4} \times \frac{17}{20} = ₹ 102x$$
 Profit = ₹ 2x  
 Discount given =  $(MP - SP) = 160x - 12x = 58x$ .  
 ATQ,  
 $58x = 1160$   
 $\Rightarrow x = 20$   
 MP =  $160 \times 20 = ₹ 3200$ .

48. (b) Let the speed of boat in still water be  $a$  km/hr and that of stream be  $b$  km/hr.  
ATQ  
 $(a+b)-(a-b)=6 \Rightarrow b=3$  km/h.  
 $\therefore a=3 \times \frac{17}{6}=8.5$  km/h.  
Required time  $\frac{23}{8.5+3} = \frac{16.5}{8.5-3} = 2 \frac{3}{5}$  hrs.
49. (a) Let initial quantity of Milk and Water in container be  $4x$  and  $3x$  respectively.  
So,  
$$\frac{4x - \frac{4}{7} \times 14}{7x} = \frac{1}{2}$$
$$\Rightarrow 8x - 16 = 7x \Rightarrow x = 16.$$
Initial quantity of mixture  $= (4+3) \times 16 = 7 \times 16 \Rightarrow 112$  liters
50. (b) Let present age of B be  $4x$  years.  
So, present age of A  $= 9x$   
Now, present age of C  $= 36 \times 2 - 4x = (72 - 4x)$  years  
ATQ,  
 $(9x - 4) + (4x - 4) = 57 \Rightarrow x = 5$   
Required difference  $= (72 - 4x) - 9x = 7$  years.
51. (a) Required percentage  $= \frac{80-64}{80} \times 100 = 20\%$ .
52. (c) Required sum  $= (56+24) + (76+30) = 186$ .
53. (a) Required average  $\frac{100}{3} = \frac{64}{3} + \frac{76}{3} = \frac{240}{3} = 80$ .
54. (b) Total article sold by E  $= 88$   
Total article sold by B and C together  $= 56 + 64 = 120$   
Required percentage  $= \frac{88}{120} \times 100 \Rightarrow \frac{220}{3} \Rightarrow 73 \frac{1}{3}\%$
55. (a) Total article sold by B  $= 56$   
ATQ,  $56 \times \frac{3}{4} = 42$ .
56. (d)  $(? \div 7 \div 5) \times 13 = 208$   
 $\Rightarrow ? = 16 \times 35 = 560$ .
57. (b)  $?^3 = 124 + 340$   
 $\Rightarrow ?^3 = 340 - 124 \Rightarrow 216 \Rightarrow ? = 6$ .
58. (b)  $\frac{126}{3} + \frac{5}{7} \times 7 = ? + 7$   
 $\Rightarrow 42 + 5 + ? + 7 \Rightarrow ? = (47 - 7) = 40$ .
59. (c)  $\frac{13}{13} = 11 + ? - 23$   
 $\Rightarrow 1 + 11 + ? - 23 \Rightarrow ? = 11$
60. (b)  $197 - 184 = 60 + ?^2$   
 $\Rightarrow ?^2 = 441 \Rightarrow ? = 21$ .
61. (e)  $23.5 \times 24 + 1890 \div 7 = (34)^2 - ?$   
 $\Rightarrow 564 + 270 + 1156 - ?$   
 $\Rightarrow 834 = 1156 - ?$   
 $\Rightarrow ? = 1156 - 834 = 322$ .
62. (d)  $? = 37 \times 29 + 16560 \div 9 = 121$   
 $\Rightarrow ? = 1073 + 1840 = 121$   
 $\Rightarrow ? = 3034$ .
63. (c)  $? = 27.5 \times 15 + 4440 \div 6 - 147 \times 5$   
 $\Rightarrow ? = 412.5 + 740 - 735$   
 $\Rightarrow ? = 1152.5 - 735 = 417.5$ .
64. (c)  $60\% \text{ of } ? = \sqrt{500 \times 22} = \frac{80 \times 4250}{100}$   
 $\Rightarrow \frac{60}{100} \times ? = \sqrt{11000} = 3400$   
 $\Rightarrow ? = \sqrt{14400} \times \frac{5}{3}$   
 $\Rightarrow ? = 120 \times \frac{5}{3} = 200$ .
65. (a)  $? \times 27 \times \frac{40}{24} = \frac{2300}{264} \times \frac{594}{115}$   
 $\Rightarrow ? \times 45 = 45 \Rightarrow ? = 1$
66. (b)  $? + 50 \times 13 = \frac{45}{100} \times 800 = 420 + 220$   
 $\Rightarrow ? = 650 + 360 - 420 = 220$   
 $\Rightarrow ? = 1000 - 650 = 350$ .
67. (d)  $? \times \frac{12}{100} + 960 \times \frac{1}{8} = 192$   
 $\Rightarrow ? \times \frac{12}{100} = 192 - 120$   
 $\Rightarrow ? \times \frac{12}{100} = 72 \Rightarrow ? = 600$ .
68. (e)  $? \times 15 + 450 \times \frac{20}{100} = 360$   
 $\Rightarrow ? \times 15 = 360 - 90$   
 $\Rightarrow ? \times 15 = 270 \Rightarrow ? = 18$
69. (a)  $\frac{3}{4} \times \frac{3}{4} \times \frac{8}{9} \times 3600 = ? + 1500$   
 $\Rightarrow ? = 1800 - 1500 = 300$ .
70. (e)  $\frac{?}{100} \times 800 = 500 + 684$   
 $\Rightarrow ? = \frac{184 \times 100}{800} = 23$ .

71. (d) Refer to the first paragraph, the hint can be drawn from the lines, Finance Minister Nirmala Sitharaman's fresh set of measures, to spur consumer demand and capital expenditure include an interestingly designed tweak to the LTC allowances of government employees. Her reckoning is that these would lend a ₹ 73,000 crore demand spurt to prop up the ailing economy in the second half of this year. This could rise beyond ₹1-lakh crore if private sector employers offered similar LTC incentives.  
Hence, **option (d)** is the right answer choice.
72. (e) The points are clearly mentioned in the second paragraph. However, in the (e) statement, 'upgrade' and 'boom' in the sentence make it a false statement according to the given passage.
73. (c) Refer to the first few lines of the second paragraph, the hint can be drawn from the lines, While States have been allowed to use these loans to pay off existing contractors' dues, the amounts on offer are unlikely to have an impact; ₹ 2,000 crore has been set aside for States that manage to complete three of four reforms mandated in the earlier Atmanirbhar Bharat package, in order to get additional borrowing leeway. Only some States may qualify for this.  
Hence, **option (c)** is the right answer choice.
74. (d) **Reckoning:** consider or regard in a specified way; Calculating, Evaluating, considering.  
**Exaltation:** a feeling or state of extreme happiness.  
**Compliance:** the action or fact of complying with a wish or command.  
**Resolution:** a firm decision to do or not to do something.  
**Halting:** slow and hesitant, especially through lack of confidence; faltering.  
Hence, **option (d)** is the right answer choice.
75. (c) **Laudable:** (of an action, idea, or aim) deserving praise and commendation.  
**Creditable:** (of a performance, effort, or action) deserving public acknowledgement and praise but not necessarily outstanding or successful.  
**Deplorable:** deserving strong condemnation; completely unacceptable.  
**Blameworthy:** responsible for wrongdoing and deserving of censure or blame.  
**Shameful:** worthy of or causing shame or disgrace.  
**Vividness:** clarity or brightness.  
Hence, **option (c)** is the right answer choice.
76. (b) The correctly spelt word is 'Pedantic'. The correct spelling of the rest of the words is:  
**Betoken:** be a signal for or a symptom of  
**Palatable:** acceptable to the taste or mind  
**Upbraid:** express criticism towards  
**Renegade:** someone who rebels and becomes an outlaw  
**Pedantic:** marked by a narrow focus on or display of learning  
Hence, **option (b)** is the right answer choice.
77. (d) The correctly spelt word is 'encroachment'. The correct spellings of the rest of words are:  
**Belie:** be in contradiction with  
**Armada;** a large fleet  
**Succor:** assistance in time of difficulty  
**Imperturbable:** marked by extreme calm and composure  
**Encroachment:** entry to another's property without right or permission  
Hence, **option (d)** is the right answer choice.
78. (b) **'Implications'** will fit in the blank to make the paragraph meaningful. Hence, **option (b)** is the right answer choice.  
**Implications:** the conclusion that can be drawn from something although it is not explicitly stated.  
**Subversions:** the undermining of the power and authority of an established system or institution.  
**Expressions:** the action of making known one's thoughts or feelings.  
**Denunciation:** public condemnation of someone or something.  
**Disapproval:** possession or expression of an unfavourable opinion.
79. (e) **'Testament'** will fit in the blank to make the paragraph meaningful. Hence, **option (e)** is the right answer choice.  
**Existence:** the fact or state of living or having objective reality.  
**Sudden:** occurring or done quickly and unexpectedly or without warning.  
**Absolute:** not qualified or diminished in any way; total.  
**Despotic:** of or typical of a despot; tyrannical.  
**Testament:** something that serves as a sign or evidence of a specified fact, event, or quality.
80. (c) **'Adversary'** will fit in the blank to make the paragraph meaningful. Hence, **option (c)** is the right answer choice.  
**Reticence:** the quality of being reticent; reserve.  
**Particular:** used to single out an individual member of a specified group or class.  
**Adversary:** one's opponent in a contest, conflict, or dispute.  
**Hesitancy:** the quality or state of being hesitant.  
**Exemption:** the action of freeing or state of being free from an obligation or liability imposed on others.
81. (a) **'Bolstered'** will fit in the blank to make the paragraph meaningful. Hence, **option (a)** is the right answer choice.  
**Bolstered:** provided with padded support.  
**Emphasized:** give special importance or value to (something) in speaking or writing.  
**Encouraged:** give support, confidence, or hope to (someone).

- Disrepair:** poor condition of a building or structure due to neglect.  
**Exhorted:** strongly encourage or urge (someone) to do something.
82. (d) **'Evident'** will fit in the blank to make the paragraph meaningful. Hence, **option (d)** is the right answer choice.  
**Successful:** accomplishing a desired aim or result.  
**Fortify:** provide (a place) with defensive works as protection against attack.  
**Disreputable:** not considered to be respectable in character or appearance.  
**Evident:** clearly seen or understood; obvious.  
**Reinforce:** strengthen or support (an object or substance), especially with additional material.
83. (c) A- C will be interchanged to make the sentence meaningful. Hence, **option (c)** is the right answer choice.
84. (a) B-C will be interchanged to make the sentence meaningful. Hence, **option (a)** is the right answer choice.
85. (d) A-B will be interchanged to make the sentence meaningful. Hence, **option (d)** is the right answer choice.
86. (d) Here, error lies in part (D) of the sentence. **'employee'** will be used instead of **'employees'** to make the sentence grammatically correct and contextually meaningful.  
**'Employee'** will be plural because it is followed by **'all'**. Hence, **option (d)** is the right answer choice.
87. (d) Here, error lies in part (D) of the given sentence. **'such'** will be used instead of **'so'** to make the sentence grammatically correct and contextually meaningful. Hence, **option (d)** is the right answer choice.
88. (c) Here, the error lies in part (C). Two negatives - **'not initiate & no initiate'** cannot go together in a single sentence. The correct formation will be - **'The employees are drawing salaries of 2012 and the management is not willing to not initiate even preliminary talks on wage revision.'**  
Hence, **option (c)** is the right answer choice.
89. (b) Here, the error lies in part (B). **'Government'** should be replaced with **"government's"** to make the sentence grammatically correct and contextually meaningful. Hence, **option (b)** is the right answer choice.
90. (c) Here, the error lies in part (C) of the given sentence. **'Instead of'** should be used in the place of **'instead'** to make the sentence grammatically correct and contextually meaningful. Hence, **option (c)** is the right answer choice.
91. (d) Here the highlighted phrase will be replaced by the one given in **option (d)**. The given phrase in bold is incorrect since it is referring to an amount which is not specified but the humanness in a robot was positive **'only'** up to that amount only. An article **'a'** should precede it which is missing in the given statement.
92. (e) The highlighted phrase is correct and there is no need of any correction. Hence, **option (e)** is the right answer choice.
93. (b) The highlighted phrase will be replaced by the one given in **option (b)**. There are certain words which are always used in singular number and no plural form is there for such words. **Information** is an example of such word that is used only in singular number. Hence, **'informations'** is wrong usage in the given sentence. It is also always followed by singular verb and not plural verb. Hence, **option (b)** is the right answer choice.
94. (c) Here, the highlighted phrase will be replaced by the one given in **option (c)** as the sentence is in past tense. Hence, **option (c)** is the right answer choice.
95. (b) The highlighted phrase will be replaced by the one given in **option (b)**. Hence, **option (b)** is the right answer choice.
96. (d) The correct sequence of the given sentences is **BACED**.  
Third sentence will be C. Hence, **option (d)** is the right answer choice.
97. (b) The correct sequence of the given sentences is **BACED**.  
Second sentence will be A. Hence, **option (b)** is the right answer choice.
98. (a) The correct sequence of the given sentences is **BACED**.  
Fifth sentence will be D. Hence, **option (a)** is the right answer choice.
99. (a) The correct sequence of the given sentences is **BACED**.  
Fourth sentence will be E. Hence, **option (a)** is the right answer choice.
100. (d) The correct sequence of the given sentences is **BACED**.  
C will not change its position after rearrangement. Hence, **option (d)** is the right answer choice.