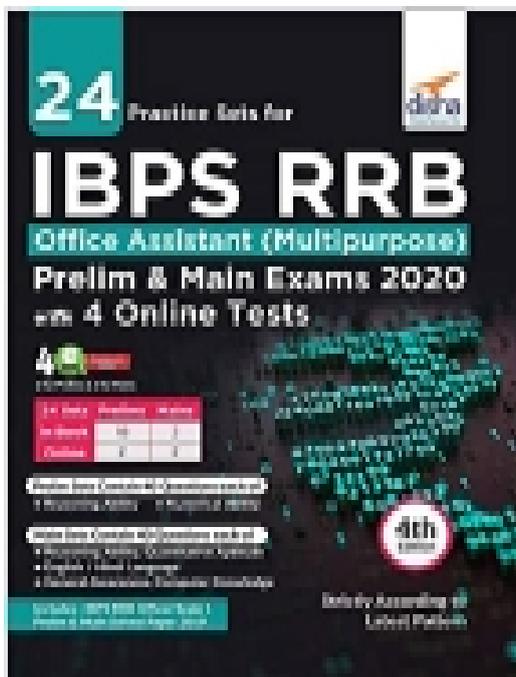




# IBPS RRB Office Assistant Main Solved Paper-2019

*This Section is taken from the Book:*



**ISBN : 9789389986396**

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# IBPS RRB Office Assistant Main Solved Paper-2019

Based on Memory

## REASONING ABILITY

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

Eight family members Vineet, Suraj, Ram, Anil, Hiten, Diya, Damini and Kunal are sitting in a circle facing the centre. All of them belongs to the different age group - 65, 58, 37, 52, 28, 14, 34 and 42 years. They are not necessarily seated in the mentioned order. The one who is 58 years old is immediate right of Hiten and Hiten is not 65 years old. Suraj is sitting fourth to the right of Kunal. Diya is 52 years old and sitting third to the right of the one who is 58 years old. The one who is 14 years old is sitting second to the left of the one who is 52 years old. The one who is 34 years old is sitting second to the left of Hiten. Vineet who is 37 years old is sitting exactly between Diya and Kunal. The one who is the twice the age of suraj is sitting second to the right of the one who is 37 years old. Ram is sitting third to the left of Diya. Hiten is sitting third to the left of Damini. Neither Suraj nor Kunal is an immediate neighbour of Hiten. The sum of the age of Hiten and Ram is 100 years.

1. Who among the following sits third to the right of Damini?
 

|                   |           |
|-------------------|-----------|
| (a) Hiten         | (b) Kunal |
| (c) Vineet        | (d) Anil  |
| (e) None of these |           |
2. Who among the following sits opposite to the one who is 52 years old?
 

|                   |              |
|-------------------|--------------|
| (a) 65 years      | (b) 34 years |
| (c) 28 years      | (d) 42 years |
| (e) None of these |              |
3. What is the position of the one who is 65 years old with respect to Hiten?
 

|                        |                       |
|------------------------|-----------------------|
| (a) Third to the right | (b) Sixth to the left |
| (c) Immediate right    | (d) Third to the left |
| (e) None of these      |                       |
4. What is the sum of age of Ram and Anil?
 

|                   |              |
|-------------------|--------------|
| (a) 86 years      | (b) 75 years |
| (c) 67 years      | (d) 55 years |
| (e) None of these |              |
5. Which of the following combinations is false?
 

|                 |                |
|-----------------|----------------|
| (a) Hiten - 42  | (b) Anil - 65  |
| (c) Kunal - 34  | (d) Suraj - 14 |
| (e) Vineet - 37 |                |

**DIRECTIONS (Qs. 6-10):** Read the following information carefully and answer the questions given beside.

In a nine-storied building, having floors numbered 1 to 9, and seven friends Airth, Bindu, Cyan, Deepa, Esha, Jiya, sudhir and Farah each live on a different floor. The ground floor is numbered floor number 1, the floor above it floor number 2 and so on. One of the floors in the building is vacant.

1. Airth lives on the fifth floor.
2. No floor below the fifth floor is vacant; and no odd numbered floor is vacant.
3. Only Deepa lives between Esha and Farah.
4. Esha does not live in an odd-numbered floor.
5. Esha does not live on a floor immediately above or immediately below Cyan's floor.
6. Bindu does not live on the bottom-most floor.
7. Jiya lives on the top most floor just above the floor on which Sudhir lives.
8. There is two floor gap between Sudhir and Airth who is live in an odd- numbered floor.
6. Who lives on the topmost floor?
 

|                   |           |
|-------------------|-----------|
| (a) Cyan          | (b) Deepa |
| (c) Bindu         | (d) Jiya  |
| (e) None of these |           |
7. On which of the following floors does Deepa live?
 

|                   |             |
|-------------------|-------------|
| (a) Floor 1       | (b) Floor 3 |
| (c) Floor 5       | (d) floor 4 |
| (e) None of these |             |
8. Which of the following floors is vacant?
 

|                   |             |
|-------------------|-------------|
| (a) Floor 7       | (b) Floor 4 |
| (c) Floor 2       | (d) Floor 6 |
| (e) None of these |             |
9. Who lives just below Sudhir?
 

|                   |           |
|-------------------|-----------|
| (a) Bindu         | (b) Cyan  |
| (c) Esha          | (d) Farah |
| (e) None of these |           |
10. Who lives two floors above Farah?
 

|           |           |
|-----------|-----------|
| (a) Farah | (b) Esha  |
| (c) Bindu | (d) Deepa |
| (e) Jiya  |           |

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

Ten Boxes A, B, C, D, E, F, G, H, I and J are place one above the other in any particular order. Box no. 1 is at the bottom and Box no. 10 is at the top. There are two boxes between F and I. Box J is placed at the Bottom. There are three boxes between Box A and Box E. Box I is placed on even no. position. Box C is at 8th no. position. Box D is kept immediately below Box C and immediately above Box E. Box H is placed between the Box G and I.

11. Which Box is placed at the top?
  - (a) Box B
  - (b) Box A
  - (c) Box G
  - (d) Box F
  - (e) None of these
12. Which Boxes are placed in the middle of the arrangement?
  - (a) Box G and Box H
  - (b) Box E and Box F
  - (c) Box I and Box J
  - (d) Box A and Box B
  - (e) None of these
13. Four of them are alike in a certain way and form a group. Which of the following does not belong to the group?
  - (a) Box C, D
  - (b) Box G, H
  - (c) Box A, C
  - (d) Box B, C
  - (e) None of these
14. Which of the following Box is placed at position no. 4?
  - (a) Box F
  - (b) Box H
  - (c) Box G
  - (d) Box E
  - (e) None of these
15. Which of the following Box is placed immediately above Box E?
  - (a) Box E
  - (b) Box H
  - (c) Box I
  - (d) Box D
  - (e) Box C

**DIRECTIONS (Qs. 16-18):** Read the following information carefully and answer the questions given beside.

Five friends Tina, Bindu, Chandni, Diksha and Jezz are playing Hide and Seek and standing randomly. Bindu is to the northeast of Jezz. Diksha is 20 m to the east of Jezz, who is 60 m to the west of Tina. Chandni is to the northwest of Diksha and in the line of Joy and Bindu. Diksha is 40 m to the south of Bindu.

16. If Bindu is to look for Tina in the game, what distance she saves if she goes to Tina straight instead of first going to Diksha and then reaching Tina?
  - (a) 42.47 m
  - (b) 56.60 m
  - (c) 27.34 m
  - (d) 23.44 m
  - (e) None of these
17. What angle does Bindu make at the point where Tina is standing while Jezz, Diksha and Tina are in the same line?
  - (a) 135°
  - (b) 45°
  - (c) 90°
  - (d) 60°
  - (e) None of these
18. What is the direction of Bindu with respect to Tina?
  - (a) North-west
  - (b) North
  - (c) East
  - (d) North-East
  - (e) None of these

**DIRECTIONS (Qs. 19-20):** Study the following information carefully and answer the questions given beside.

A E % 6 Y B R & # P U W © 2 I \$ 3 \* L O M V

19. If in the above sequence starting from B to \$ is written in reverse order, which element will be the fourth to the left of 15th element from the left?
  - (a) U
  - (b) #
  - (c) P
  - (d) %
  - (e) None of these

20. If every letter in the given sequence is replaced by the previous letter in the English alphabet, which element will be the second to the left of the ninth element from the right end?
  - (a) ©
  - (b) X
  - (c) W
  - (d) V
  - (e) None of these

**DIRECTIONS (Qs. 21-25):** Study the following information carefully and answer the questions given below:

Twelve people O, P, Q, R, S, T, U, V, W, X, Y and Z are seated on parallel rows. Such a way that O, P, S, U, V, Z are seated on row 1 and other persons are seated on row 2 but not necessarily in the same order. Some people are facing north and some people facing south in both the rows. O sits second from the left of S who is not facing north. P sits immediate right of S. P sits straight to T facing opposite direction to each other. V sits second to the right of P. O and R faces each other. Y sits second to the left of R. Two persons sit between Q and X. W and U are seated at corners and facing opposite direction to each other. Neither Q nor X is seated at the extreme ends of the row. Z and U are facing same direction as Q and X. V is facing same direction as R. Q is not a neighbor of R. Not more than five persons facing south.

21. Who among the following persons facing south in Row-1?
  - (a) S and O
  - (b) V and S
  - (c) S and P
  - (d) S and U
  - (e) Cannot be determined
22. In which direction neighbor of S faces?
  - (a) Both the persons faces North
  - (b) Both the person faces South
  - (c) One person faces north and other persons faces south
  - (d) Immediate left faces north and immediate right faces south
  - (e) Cannot be determined
23. Find the following person's position in the rows respectively.
  - I. Who sits immediate right of O?
  - II. Who sits third to the right of Q?
  - (a) Y and V
  - (b) V and X
  - (c) V and Y
  - (d) Z and R
  - (e) None of these
24. Find the odd one out among the following.
  - (a) U
  - (b) Z
  - (c) Y
  - (d) X
  - (e) R
25. If U is related to P and S is related to Z in same way Y is related with:
  - (a) U
  - (b) Z
  - (c) X
  - (d) Q
  - (e) R

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

Eight friends - P, Q, R, S, T, U, V, and W were born on in March, June, September and December on either 3rd or 8th (all born on

different dates). The ones who were born in a month having 30 days like different sweets - Laddu, Peda, jalebi and Barfi not necessarily in the same order. The ones who were born in a month having 31 days like different colours - Red, Yellow, Blue and Green not necessarily in the same order. T was born in June. 1 person was born between T and S. S does not like any colour. Q likes red colour. Same number of people were born before P as after S. No person was born between the ones who like yellow colour and jalebi. The one who likes yellow colour was not born on 8th of any month. No person was born between T and one who likes Barfi. One person was born between Q and one who likes laddu. P does not like Laddu. The ones who like Peda and Laddu were born either on same date or in same month. One person was born between P and W. U does not like any sweet. No person was born between R and one who likes blue colour. W does not like sweet. Same number of persons were born between the ones who like green colour and Peda and who like blue colour and jalebi.

26. Who likes Green colour?  
 (a) R (b) U  
 (c) U (d) W  
 (e) T
27. How many people were born between Q and one who likes Barfi?  
 (a) Four (b) Two  
 (c) Three (d) None  
 (e) One
28. Four of the following forms a group based on certain pattern. Who does not belong to this group?  
 (a) P (b) U  
 (c) S (d) R  
 (e) T
29. Who was born on 3rd September?  
 (a) The one who likes jalebi  
 (b) T  
 (c) R  
 (d) S  
 (e) The one who likes Barfi
30. R likes which of the following sweet/colour?  
 (a) Yellow (b) jalebi  
 (c) Barfi (d) Blue  
 (e) Laddu
31. Which of the following is the code for 'To Live Well' in the given code language?  
 (a) su ke ri (b) tl ph oh  
 (c) ph bg ke (d) bg oh tl  
 (e) None of these
32. What does the code 'va' stands for in the given code language?  
 (a) Right (b) Make  
 (c) Free (d) Your  
 (e) Can't be determined
33. Which of the following is the code for 'Right Home' in the given code language?  
 (a) tl su (b) va rn  
 (c) oh rn (d) su va  
 (e) None of these
34. In a row where all are facing north, Pallavi is 15th from the left end and Gauri is 19th from the right end. They interchange their positions, and Rajan who sits 24th from the left end sits at the 5th place to the left of Pallavi's new position. How many persons were there in the row?  
 (a) 36 (b) 47  
 (c) 56 (d) 42  
 (e) None of these
35. From the letters of the given word "ONEROUS" What is second letter of the meaningful English word that can be formed from the first, third, fourth and seventh letter of the above given word? If no such word can be formed then mark your answer as 'N', if more than one word can be formed then mark your answer as 'M'.  
 (a) R (b) S  
 (c) M (d) N  
 (e) O

**DIRECTIONS (Qs. 36-37):** Read the given information carefully and answer the questions given beside:

In a family of some members Suraj says that Manu is the daughter of my sister Riya, who is the only daughter of Tarun. Ajay is the child of Tarun and Ila, who is the grandmother of Kajal. Rozi is the mother of Trisha, who is the only sister of Kajal. Ajay is unmarried.

36. If Maynak is spouse of Riya, how is Rozi related to Mayank?  
 (a) Sister (b) Brother-in-law  
 (c) Wife of Brother-in-law (d) Cousin  
 (e) None of these
37. How Tarun is related to suraj?  
 (a) Father (b) Mother  
 (c) Daughter (d) Cannot be determined  
 (e) None of these
38. **Statements :**  
 All circles are squares.  
 Some squares are rectangles.  
**Conclusions :**  
 I. All rectangles being squares is a possibility.  
 II. All circles are rectangles.  
 (a) Only conclusion I follows  
 (b) Only conclusion II follows  
 (c) Both conclusions I and II follow  
 (d) Neither conclusion I nor II follows  
 (e) Either conclusion I or II follows

**DIRECTIONS (Qs. 31-33):** Study the following information carefully and answer the questions given below:

**In a certain code language,**

'Live Free Die Well' is written as 'bg ph su md'

'Right To Free Life' is written as 'va su oh ke'

'Make Your Life Well' is written as 'bg ri oh tl'

'To Live Make Home' is written as 'tl ke ph rn'

31. Which of the following is the code for 'To Live Well' in the given code language?  
 (a) su ke ri (b) tl ph oh  
 (c) ph bg ke (d) bg oh tl  
 (e) None of these

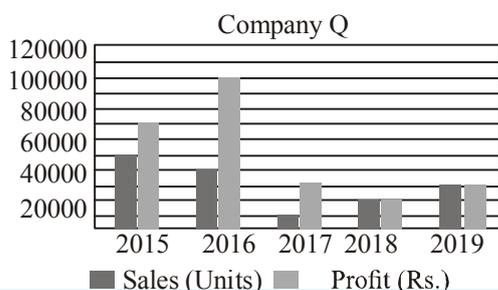
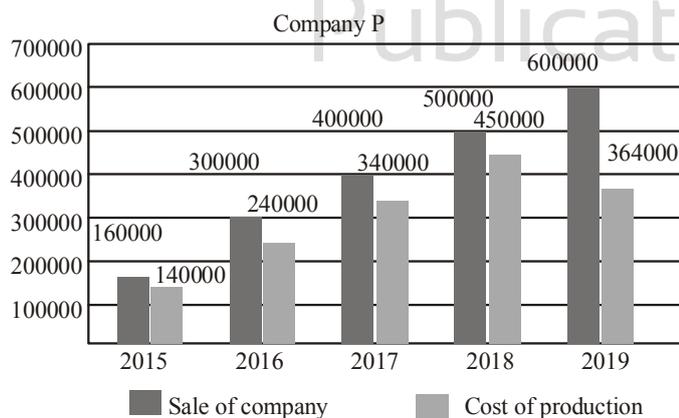
**DIRECTIONS (Qs. 39-40):** Study the following information and answer the questions given below:

39. Marks of five students A, B, C, D and E are compared. Who among the following got the highest marks?
- A got highest marks than D and B but not than E.
  - C did not get the highest marks.
  - D did not get the lowest marks.
- Only I and either II or III
  - Question cannot be answered even with all the statements together
  - Only statement I
  - Only statement III
  - Both statement I and II
40. What is the position of P with respect to S?
- Q is left to R.
  - S is south to R and south-west to T.
  - Q is south to P.
- All the statements are required to answer the question.
  - Only statements I and II are sufficient.
  - Only statements II and III are sufficient.
  - Only statements I and III are sufficient.
  - Question cannot be answered even with the information in all three statements.

### QUANTITATIVE APTITUDE

**DIRECTIONS (Qs. 41-44) :** The given bar graphs show the data of two companies P and Q. Study the graph carefully and answer the questions that follow.

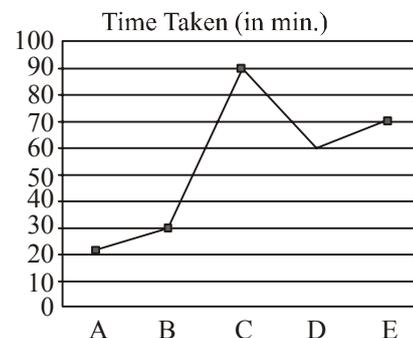
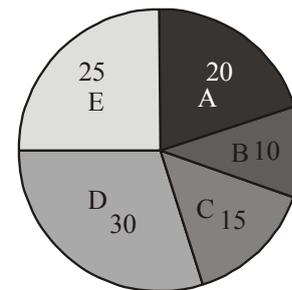
The sale of company P is in ₹ and the sale of company Q is in units.



41. What is the total profit earned by the company P in all five years?
- ₹418000
  - ₹330000
  - ₹426000
  - ₹432000
  - ₹460000
42. What is the ratio of profit by the company P in the year 2017 to 2018?
- 1 : 2
  - 6 : 5
  - 7 : 5
  - 8 : 9
  - 5 : 4
43. What is the ratio of cost of production of company Q in 2018 to that in 2019 ?
- 11 : 2
  - 8 : 9
  - 5 : 4
  - 3 : 4
  - Data insufficient
44. What is the profit percentage of company Q in the year 2016. If the price per unit is ₹ 30?
- 9.09 %
  - 9.0 %
  - 10 %
  - 10.09 %
  - None of these
45. Two persons Raman and Mohan invested in a business with ₹ 138000 and ₹ 90000 respectively, they agree that 50% of the profit should be divided equally between them and rest is divided according to their investment. If Raman got 800 rupees more than Mohan, find the total profit.
- 8600
  - 7600
  - 8000
  - 7200
  - None of these

**DIRECTIONS (Qs. 46-50) :** Study the following Pie chart and Bar graph carefully and answer the given questions accordingly. There are five Taps of different capacities- A, B, C, D and E

Pie chart shows the percentage of tank filled by each tap and line graph shows the time taken to fill the given percentage of tank (in minutes).



46. A tank has 3 taps. A and B to fill the tank and third tap making it empty. The 3rd tap is taking 120 minutes to empty the 75% of the tank. All the 3 taps are opened in the beginning. After 14 minutes, 3rd tap is closed. In how much time, will the rest of the tank be full?  
(a) 68.00 minutes (b) 67.56 minutes  
(c) 68.56 minutes (d) 58 minutes  
(e) None of these
47. 2 taps C and D are filling the tank while a 3<sup>rd</sup> tap can empty the full tank in 100 minutes. C and D are kept open for 20 minutes in the beginning and then 3rd tap is also opened. In what time is the tank emptied?  
(a) 60 minutes (b) 50 minutes  
(c) 42 minutes (d) 40 minutes  
(e) None of these
48. 2 taps A and E are filling the tank respectively. There is a 3rd tap in the bottom of tank to empty it. If all the three taps are simultaneously opened, then the tank is full in 100 minutes. In how much time, the 3<sup>rd</sup> tap alone can empty the tank?  
(a) 320 minutes (b) 300 minutes  
(c) 280 minutes (d) 260 minutes  
(e) None of these
49. Two taps C and D can fill a tank and a waste tap can empty in 300 minutes. All the 3 taps working together can fill the tank in 300 minutes. The capacity of the tank is:  
(a) 1800 units (b) 1200 units  
(c) 300 units (d) 600 units  
(e) None of these
50. A large tanker can be filled by two taps B and C. How many minutes will it take to fill the tanker from empty state if B is used for half the time and C and B fill it together for the other half?  
(a) 240 minutes (b) 260 minutes  
(c) 180 minutes (d) 290 minutes  
(e) None of these

**DIRECTIONS (Qs. 51-55) :** Given below are two quantities named A & B. Based on the given information, you have to determine the relation between the two quantities. You should use the given data and your knowledge of Mathematics to choose between the possible answers.

- (a) If Quantity A > Quantity B  
(b) If Quantity A < Quantity B  
(c) If Quantity A ≤ Quantity B  
(d) If Quantity A ≥ Quantity B  
(e) If Quantity A = Quantity B or No relation possible
51. The cost price of a Mobile is ₹ 20000 and the selling price is ₹ 24000  
**Quantity A :** Find the profit percent, if the discount percent is increased from 20% to 30%.  
**Quantity B :** If the selling price is increased by 20% then find the profit percent
52. Find the distance covered.  
**Quantity A :** A person saves 120 minutes when he increases his speed from 20 km/hr to 30 km/hr to cover a certain distance.  
**Quantity B :** If a person covers at a speed of 60 km/hr for 3 hours, then find the distance covered by him.

53. Find the sum.  
**Quantity A :** If the compound interest for 2 years at 20% rate of interest is ₹ 1210.  
**Quantity B :** The sum of money will produce ₹ 600 interest in 4 years at 6% simple interest.
54. Find the present age of X.  
**Quantity A :** Four years before, the ratio of ages of X and Y was 5 : 6. Four years hence this ratio will become 6 : 7.  
**Quantity B :** 6 years before the ratio of ages of X and Y was 2 : 3 and 6 years hence the ratio will become 3 : 4
55. **Quantity A :** In a test consisting of 100 questions, carrying one mark each. Aman answers 60 % of the first 50 questions correctly. What percent of the remaining questions does he need to answer correctly to score 75% on entire test?  
**Quantity B :** The price of an article is reduced by 30% but the daily sale of the article is increased by 40%. The net effect on the daily sale receipts is-

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

- In a university sports competition, the total number of 800 students participated in eight different sports. 15% of the total students took part in cricket, 1/5 of the total students participated in Football. 1/10<sup>th</sup> of the total students took part in Badminton, 12% of total students participated in Basketball, 18% of total students took part in Athletics, 11% of total students took part in Hockey and remaining students took part in Tennis and Baseball respectively in the ratio 3 : 4. No female student plays cricket. The ratio of male and female students in football is 6:4. The no. of female students of badminton is 24. The ratio of male and female students in Basketball, Athletics, Hockey, Tennis and Baseball is 1 : 2, 5 : 4, 1 : 1, 2 : 1 and 5 : 3 respectively.
56. The no. of male students who play hockey, baseball and athletics is what percent more than the female students who play football, tennis and basketball?  
(a) 14.56% (b) 13.39%  
(c) 14.39% (d) 13.89%  
(e) None of these
57. Find the ratio between the total no. of male students to the total no. of female students?  
(a) 4 : 3 (b) 3 : 4  
(c) 3 : 5 (d) 5 : 3  
(e) None of these
58. The total no. of female students is what percent of total students?  
(a) 38 % (b) 34 %  
(c) 35 % (d) 37.5 %  
(e) None of these
59. Find the ratio of the male students who play cricket to the male students who play hockey?  
(a) 30 : 11 (b) 29 : 11  
(c) 11 : 29 (d) 33 : 19  
(e) None of these
60. The no. of male students who play football is what percent of the female students who play Basketball?  
(a) 75% (b) 50.33%  
(c) 200% (d) 150%  
(e) None of these

**DIRECTIONS (Qs. 61-63) :**

Rohan is a dealer of study materials. His policy is to buy the products at 5% less than MRP. He has different type of customers to whom he sells goods at different price and offers cash discount for quick payment at different rates. Cash discount to wholesaler is provided, if they make payment within a month, and it is provided to retailer, if payment is made within 15 days. Cash discount is given to regular customer only and only if they make cash purchases.

| Types of customer | Selling Price | Cash Discount |
|-------------------|---------------|---------------|
| Wholesaler        | MRP           | 3%            |
| Retailer          | MRP + 10%     | 2%            |
| Daily Customer    | Not fixed     | 1%            |

61. Selling price (after adjusting discount if applicable) of 100 boxes of pencil to a wholesaler is ₹ 2910 who made the whole payment within a week. Selling price of 50 notebooks to a retailer is ₹ 3430 who made the cash payment while purchasing. What is the ratio of the cost price of pen boxes to the cost price of notebooks for Rohan?  
 (a) 7 : 6 (b) 19 : 28  
 (c) 6 : 7 (d) 28 : 19  
 (e) 7 : 13
62. Rohan has a choice to sell 4 study tables having MRP ₹ 250 each, either to retailer or to daily customer. Finally, it is sold to daily customer at a profit of 15% who made whole payment immediately. While the retailer was ready to make payment of half amount only. What is the amount of profit or loss incurred by Rohan due to this decision?  
 (a) Profit - ₹ 7.5 (b) Loss - ₹ 7.5  
 (c) Profit - ₹ 10 (d) Loss - ₹ 10  
 (e) No profit no loss
63. Selling price (after adjusting discount if applicable) of 100 boxes of pens to a wholesaler is ₹ 2910 who make the whole payment within a week. What is the cost price of these pen boxes for Rohan?  
 (a) ₹ 3000 (b) ₹ 2910  
 (c) ₹ 2500 (d) ₹ 2580  
 (e) ₹ 2850

**DIRECTIONS (Qs. 64-68) :** Study the following table carefully and answer the given questions based on it.

| Years | State A                    |   | State B                    |   |
|-------|----------------------------|---|----------------------------|---|
|       | No. of appeared candidates | Percentage of appeared candidates who qualified | No. of appeared candidates | Percentage of appeared candidates who qualified |
| 2015  | 500                        | 70%   | –                          | 40%   |
| 2016  | 450                        | 50%   | –                          | 55%   |
| 2017  | –                          | 55%   | 360                        | 60%   |
| 2018  | 550                        | 80%   | 550                        | 70%   |
| 2019  | 390                        | –   | 400                        | –   |

**Note:** Calculate the missing values if it is required to answer the given questions based on the given information.

64. The number of appeared candidates from the State B increased by 80% from 2015 to 2016. If the total number of appeared candidates from State B in 2015 and 2016 together is 840, what is the number of qualified candidates from State B in 2016?  
 (a) 280 (b) 305  
 (c) 297 (d) 331  
 (e) 101
65. Out of the total number of qualified candidates from State A in 2017, the ratio of male to female candidates is 15 : 7. If the number of female qualified candidates from State A in 2017 is 70, what is the number of appeared candidates (both male and female) from State A in 2017?  
 (a) 355 (b) 530  
 (c) 280 (d) 400  
 (e) 101
66. If the average number of qualified candidates from State B in 2017, 2018 and 2019 is 267. What is the number of qualified candidates from State B in 2019?  
 (a) 305 (b) 200  
 (c) 300 (d) 225  
 (e) 101
67. If the percentage of qualified candidates from State A in 2019 is the same as the percentage of qualified candidates from State B in 2015 and the difference between the qualified candidates between 2019 and 2015 is 36. What is the ratio of appeared candidates from State B in the year 2015 to the qualified candidates from State A in the year 2019?  
 (a) 25 : 13 (b) 7 : 3  
 (c) 13 : 6 (d) 22 : 13  
 (e) 17 : 13
68. Find the difference between qualified candidates from State A in 2015 and that in 2016?  
 (a) 125 (b) 200  
 (c) 201 (d) 120  
 (e) 101
69. The ratio of ages of three boys Ramesh, Suresh and Brajesh five years ago was 4 : 13 : 10. Also, the ratio of their ages ten years from now will be 3 : 6 : 5. What will be the ratio of their age after one year?  
 (a) 4 : 5 : 3 (b) 2 : 4 : 5  
 (c) 3 : 5 : 4 (d) 2 : 5 : 4  
 (e) Cannot be determined
70. Two sides of a triangular field are 96 m and 132 m, respectively, and its perimeter is 324 m determine the cost of ploughing the field at ₹ 15 per m<sup>2</sup>.  
 (a) 69016.56 (b) 99000.4  
 (c) 7020.69 (d) 69725.79  
 (e) None of these
71. 4 men and 6 women together can complete a piece of work in 4 days. 2 man and 4 boys together complete the work in 8 days. 6 women and 4 boys together can complete the work in 6 days. In how many days 4 men, 6 women and 8 boys together can complete the work?

- (a) 72/13 days (b) 72/11 days (a) 56.67% (b) 75.93%
- (c) 36/13 days (d) 36/11 days (c) 68.33% (d) 76.33%
- (e) 27/13 days (e) 78.33%
72. Rohit randomly picks two mobile from a bag containing 20 black mobile and 30 red mobile. What is the probability of Rohit picking, randomly 2 mobile of different colours?
- (a)  $\frac{14}{49}$  (b)  $\frac{25}{49}$
- (c)  $\frac{25}{104}$  (d)  $\frac{12}{49}$
- (e) None of these
73. A motorcycle is running at a speed of 90 km/hr. If a bus is running 480 m ahead of the motorcycle at a speed of 72 km/hr in how much time will the motorcycle overtake the bus ?
- (a) 1 min 38 sec (b) 1 min 36 sec
- (c) 1 min 18 sec (d) 1 min 48 sec
- (e) None of these
74. The compound interest obtained on certain principal for 2nd year at 10% per annum interest rate is ₹ 1210. Find the principal amount.
- (a) ₹ 10000 (b) ₹ 15000
- (c) ₹ 12500 (d) ₹ 8000
- (e) ₹ 11000
75. A, B and C started a business in partnership. A invested ₹ 5120 and B invested ₹ 4000. At the end of the year, they gained ₹ 1105, out of which A received ₹ 320. Find the capital amount invested by C.
- (a) ₹ 8560 (b) ₹ 8600
- (c) ₹ 8400 (d) ₹ 8340
- (e) ₹ 8670
76. The ratio of present ages of Piyush and Ayush is 9 : 8. After 12 years, the ratio of their ages becomes 21 : 19. If Rohit is 8 years older than Ayush then find the present age of Rohit.
- (a) 49 years (b) 79 years
- (c) 72 years (d) 59 years
- (e) 69 years
77. The cost price of a product is ₹ 3600. The cost of the product is three times the cost of impurities in it. The cost of impurities increased in the ratio of 3 : 7 and that of pure material increased in the ratio of 4 : 9. Find the present cost of the product.
- (a) 6000 (b) 8000
- (c) 10000 (d) 7000
- (e) None of these
78. There are two mixtures such that they contain 60% milk and 55% milk respectively. Some amount from first mixture is mixed with twice the same amount of second mixture. Find the percentage of milk in the resultant mixture?
- (a) 56.67% (b) 75.93%
- (c) 68.33% (d) 76.33%
- (e) 78.33%
79. Two boats are 75 km apart from each other in the direction of the flow of river. The speed of each boat in still water is 30 km/hr. They both start moving towards each other at same point of time. After how much time will they meet? (Assume that the river is straight and has no turns?)
- (a) 1 hour (b) 1 hour and 15 minutes
- (c) 1 hour and 30 minutes (d) 2 hours
- (e) Cannot be determined
80. The diameter of a circle is 30 cm. The square is formed whose side is the mean of radius and diameter of the circle. Calculate the difference between numerical value of the area and the perimeter of the square?
- (a) 416.25 (b) 208.125
- (c) 300 (d) 472.75
- (e) None of these

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**COMPUTER KNOWLEDGE**

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81. Which unit is a combinational digital electronic circuit that performs arithmetic and bitwise operations on integer binary numbers?
- (a) BOU (b) AEU
- (c) CPU (d) ALU
- (e) UPS
82. Which button is called as middle button used as third mouse button by pressing on it.
- (a) right button (b) scroll wheel
- (c) touch bar (d) light bar
- (e) left button
83. Presentation of a series of still images on a projection screen or electronic display device is called as:
- (a) slide edit (b) slide view
- (c) slide show (d) slide movie
- (e) slide image
84. Which memory is used as temporary memory?
- (a) Non volatile memory (b) Volatile memory
- (c) Hard disk memory (d) Read only memory
- (e) Flash disc memory
85. A Software program that add functionality to your computer or help your computer perform better is called as
- (a) utility program
- (b) function program
- (c) specialized program
- (d) manufacturer program
- (e) compiling program
86. Which unit of computer helps in communication between the memory and the arithmetic logical unit?
- (a) CMU (b) CCU
- (c) UPS (d) CPU
- (e) ALU

87. Specialized program that allows user to utilize in specific application is classified as  
 (a) relative programs (b) application program  
 (c) appropriate programs (d) replicate programs  
 (e) logical programs
88. Which of the following is most commonly used to identify return visitors to a website?  
 (a) logged-in visitors  
 (b) digital certificates  
 (c) electronic time stamping  
 (d) cookies  
 (e) None of the above.
89. \_\_\_\_\_ is a type of electronic spam where unsolicited messages are sent by email.  
 (a) trash mail (b) cram mail  
 (c) draft mail (d) spam mail  
 (e) starred mail
90. Data on a floppy disk was recorded in rings called \_\_\_\_\_.  
 (a) flip (b) ringers  
 (c) rounders (d) fields  
 (e) segments
91. Choose the odd one out:  
 (a) Word (b) Excel  
 (c) Access (d) Keyboard  
 (e) PowerPoint
92. A device that not only provides surge protection, but also furnishes the computer with battery backup power during a power outage is \_\_\_\_\_.  
 (a) Battery strip (b) UPS  
 (c) Surge strip (d) USB  
 (e) Memory
93. A/An \_\_\_\_\_ allows you to access your e-mail from anywhere.  
 (a) Forum (b) Webmail interface  
 (c) Message Board (d) Weblog  
 (e) EEPROM
94. A \_\_\_\_\_ is an electronic device that process data, converting it into information.  
 (a) processor (b) computer  
 (c) case (d) stylus  
 (e) None of these.
95. Which of the following is not a valid memory unit?  
 (a) PLB (b) KB  
 (c) YB (d) PB  
 (e) Byte
96. Which of the following is a machine independent program?  
 (a) High level language  
 (b) Low level language  
 (c) Assembly language  
 (d) Machine language  
 (e) None of these
97. Which one of the following is not an e-mail service provider?  
 (a) Hotmail (b) Gmail  
 (c) Bing (d) Yahoo mail  
 (e) Outlook
98. Which of the following fields of an e-mail hides the identity of the recipients?  
 (a) To (b) From  
 (c) Cc (d) Bcc  
 (e) Subject
99. Using output devices one can \_\_\_\_\_.  
 (a) View or Print Data (b) Modify Data  
 (c) Store Data (d) Replicate Data  
 (e) Enter Data
100. Which among the following functions does Ctrl+P perform?  
 (a) Project (b) Erase  
 (c) Copy (d) Paste  
 (e) Print
101. The key combination of 'Ctrl + Right Arrow' is used to \_\_\_\_\_ in MS Word.  
 (a) Move the cursor one word to the right  
 (b) Move the cursor to the end of the line  
 (c) Move to cursor to the end of the document  
 (d) Move the cursor one paragraph down  
 (e) None of these
102. The default extension of Power point 2013 is-  
 (a) .ppt (b) .pdf  
 (c) .pptx (d) .pps  
 (e) .ppn
103. \_\_\_\_\_ is a useful tool which allows you to create a huge number of documents by merging the main document with the data source.  
 (a) Mail Merge (b) Track Change  
 (c) Page Margin (d) Orientation  
 (e) Indentation
104. A \_\_\_\_\_ is an electronic device that process data, converting it into information.  
 (a) processor (b) computer  
 (c) case (d) stylus  
 (e) None of these.
105. \_\_\_\_\_ computers represent data as variable points along a continuous spectrum of values.  
 (a) Analog (b) Digital  
 (c) Precise (d) Mainframe  
 (e) None of these
106. Which of the following is used by the tablet PC to write on the screen.  
 (a) finger (b) mouse  
 (c) digitalizer (d) stylus  
 (e) None of these

107. A word in a web page that, when clicked, opens another document.  
 (a) anchor (b) URL  
 (c) hyperlink (d) reference  
 (e) None of these
108. A network's \_\_\_\_\_ is the central structure that connects other portions of the network.  
 (a) trunk (b) backbone  
 (c) protocol (d) server  
 (e) None of these
109. You can organize your bookmarks using \_\_\_\_\_.  
 (a) structures (b) containers  
 (c) folders (d) menus  
 (e) Chart
110. Which key will launch the Start button.  
 (a) esc (b) shift  
 (c) Windows (d) Shortcut  
 (e) None of these
111. Computers use the \_\_\_\_\_ number system to store data and perform calculations.  
 (a) decimal (b) hexadecimal  
 (c) binary (d) octal  
 (e) None of these
112. Floppy drives, hard drives and tape drives all use a \_\_\_\_\_ to read data.  
 (a) laser (b) sensor  
 (c) magnet (d) pen  
 (e) None of these
113. The number of pixels displayed on a screen is known as the screen .....  
 (a) resolution (b) colour depth  
 (c) refresh rate (d) viewing size  
 (e) None of these
114. \_\_\_\_\_ computers represent data as variable points along a continuous spectrum of values.  
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 (c) Precise (d) Mainframe  
 (e) None of these
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 (e) None of these
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 (a) decimal (b) hexadecimal  
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119. Floppy drives, hard drives and tape drives all use a \_\_\_\_\_ to read data.  
 (a) laser (b) sensor  
 (c) magnet (d) pen  
 (e) None of these
120. The number of pixels displayed on a screen is known as the screen .....  
 (a) resolution (b) colour depth  
 (c) refresh rate (d) viewing size  
 (e) None of these
- 
- GENERAL AWARENESS**
- 
121. Who is the minister of Information and Broadcasting Ministry?  
 (a) Smrati Irani (b) Prakash Javadekar  
 (c) J.P. Nadda (d) Ramesh P. Nishank  
 (e) None of these
122. Who is the winner of men's Wimbledon 2019?  
 (a) Kei Nishikori (Japan)  
 (b) Roger Federer (Switzerland)  
 (c) Novak Djokovic (Serbia)  
 (d) Rafael Nadal (spain)  
 (e) None of these
123. RBI constituted a six-member committee to strengthen the corporate governance framework of systematically important CICs. What is the full form of CIC?  
 (a) Core Investment Company  
 (b) Committed Investor Company  
 (c) Core Information Cell  
 (d) Cost of Investment Company  
 (e) None of these
124. U K Sinha committee was constituted for?  
 (a) RBI panel on NPA reforms  
 (b) RBI panel on Rural Banks reforms  
 (c) RBI panel on Payment Banks reforms  
 (d) RBI panel on MSME reforms  
 (e) None of these
125. Who is the present Chairman of SEBI?  
 (a) Urjit Patel (b) Ajay Tyagi  
 (c) Ashok Kumar Gupta (d) Upendra Kumar Sinha  
 (e) None of these
126. "Operation Sunrise" is conducted between India and which country?  
 (a) Bangladesh (b) Myanmar  
 (c) Sri Lanka (d) Vietnam  
 (e) None of these
127. Who won the Ramon Magsaysay Award 2019?  
 (a) Nambi Narayanan (b) Arundhati Rai  
 (c) Bindeshwari Pathak (d) Ravish Kumar  
 (e) None of these

128. What is the "theme of Yoga day 2019"?
- Yoga for Climate Action
  - Yoga for All
  - Yoga for Better World
  - Yoga for Healthy Life
  - None of these
129. Who is honored with Guinea's highest award in 2019?
- Ram Nath Kovind
  - Narendra Modi
  - Venkaiah Naidu
  - Pranab Mukherjee
  - None of these
130. Where is the informal BRICS summit held?
- Brasilia, Brazil
  - Johannesburg, S. Africa
  - Washington, U.S.A.
  - Osaka, Japan
  - None of these
131. Which firm has signed a Memorandum of Understanding (MoU) with Airbus cabin and cargo design engineering?
- Tech Mahindra
  - H.A.L.
  - Tata
  - Ashok Leyland
  - None of these
132. Which state has the case of the Acute Encephalitis outbreak recently that took away many lives?
- Jharkhand
  - Bihar
  - Madhya Pradesh
  - Odisha
  - None of these
133. Where is Kaleshwaram Lift Irrigation Project (KLIP) inaugurated?
- Andhra Pradesh
  - Maharashtra
  - Telangana
  - Odisha
  - None of these
134. Who is appointed as the first female referee of ICC (International Cricket Council)?
- GS Lakshmi
  - Vishakha Satpathi
  - Anjana Rawat
  - Shafali Varma
  - None of these
135. Which state has topped the NITI AAYOG Health Index?
- Tamil Nadu
  - Karnataka
  - Kerala
  - Sikkim
  - None of these
136. Where is the headquarter of ADB (Asian Development Bank) situated?
- Laos
  - Philippines
  - Thailand
  - Brunei
  - None of these
137. Where is the headquarter of Think-Tank Atlantic Council?
- New York
  - Los Angeles
  - Washington
  - Texas
  - None of these
138. What is the full form of MCLR?
- Marginal Cost of Funds based Lending Rate
  - Manual Cost of Funds based Leading Rate
  - Minimum Cost of Funds by Leading Rate
  - Maximum Cost of Funds based Large Rate
  - None of these
139. Where is Tadoba National Park situated?
- Maharashtra
  - Uttar Pradesh
  - Gujarat
  - Assam
  - None of these
140. Rural roads come under which ministry?
- Ministry of Agriculture
  - Ministry of Communications and Information Technology
  - Ministry of Rural Development
  - Ministry of Chemicals and Fertilizers
  - None of these
141. Who of the following did not win the Padma Vibhushan Award, 2019?
- Ms. Teejan Bai
  - Shri Ismail Omar Guelleh
  - Shri Anilkumar Manibhai Naik
  - Shri Sukhdev Singh Dhindsa
  - None of these
142. Hemis festival is celebrated in which region of India?
- Leh-Ladakh region
  - Assam region
  - Mizoram region
  - Kerala region
  - None of these
143. Who has launched Apollo 11 Mission?
- JAXA
  - ISRO
  - NASA
  - ROSCOSMOS
  - None of these
144. Where will be NASA's Dragonfly mission launched in search of the building blocks of life?
- Mars' largest moon Phobos
  - Saturn's largest moon Titan
  - Uranus's largest moon Titania
  - None of these
  - None of these
145. Which team has won the 2019 UEFA Champions League Final?
- Real Madrid
  - Juventus
  - Liverpool
  - FC Barcelona
  - None of these
146. "Relentless" is the autobiography of which personality?
- Manmohan Singh
  - Yashwant Sinha
  - Lal Krishna Advani
  - Ghulam Nabi Azad
  - None of these
147. United Nations World Tourism Organization has celebrated World Tourism Day as international observances on-
- 14th September
  - 5th September
  - 21st September
  - 27th September
  - None of these
148. Who has been inducted into the International Cricket Council's (ICC) Hall of Fame alongside South African pace legend Allan Donald?
- Sachin Tendulkar
  - Saurav Ganguly
  - Rahul Dravid
  - Yuvraj Singh
  - None of these
149. Which institute has moved significantly up from 162nd rank last year to 152nd rank this year in the Quacquarelli Symonds (QS) World University Rankings?

- (a) IIT Delhi (b) IIT Kanpur  
(c) IIT Bombay (d) IIT Indore  
(e) None of these
150. \_\_\_\_\_ is an Indian folk dance originating from the "Konkan" region which is the coastal region of the states of Goa and Maharashtra.  
(a) Lavani (b) Fugdi  
(c) Giddha (d) Oppana  
(e) None of these
151. In new Motor Vehicle (Amendment) Bill 2019, how much fine for drunken driving?  
(a) Rs. 2000 (b) Rs. 5000  
(c) Rs. 10000 (d) Rs. 15000  
(e) None of these
152. Which organisation has approved a new scheme, 'Scheme for Trans-disciplinary Research for India's Developing Economy' (STRIDE)?  
(a) ICAR (b) NITI Aayog  
(c) UGC (d) None of these  
(e) None of these
153. TRC Turf Ground is a football ground in-  
(a) Jammu and Kashmir (b) Himachal Pradesh  
(c) Mizoram (d) Assam  
(e) None of these
154. The production of India's first semi high-speed train (Vande Bharat Express) has come to a grinding halt at the Integral Coach Factory (ICF) in-  
(a) Mumbai (b) Chennai  
(c) Raipur (d) Lucknow  
(e) None of these
155. Careem to become a wholly-owned subsidiary of \_\_\_\_\_, operating as an independent company under the Careem brand and led by Careem founders.  
(a) Ola (b) Uber  
(c) Swiggy (d) Zomato  
(e) None of these
156. India has opened its first specialised hydrotherapy treatment for elephants suffering from arthritis, joint pain and foot ailments near the Wildlife SOS' Elephant Conservation and Care Centre (ECCC) in which state?  
(a) Ranchi (b) Mathura  
(c) Ujjain (d) Chandigarh  
(e) None of these
157. Name the woman, who created history by becoming the first woman pilot to cross both Atlantic Ocean and Pacific Ocean solo in a Light Sports Aircraft.  
(a) Avani Chaturvedi (b) Aarohi Pandit  
(c) Bhawana Kanth (d) Nivedita Bhasin  
(e) None of these
158. India's rank has slipped five places to 141 among 163 countries on the Global Peace Index 2019. \_\_\_\_\_ think tank Institute for Economics & Peace ranks countries according to their level of peacefulness based on three thematic domains.  
(a) Australian (b) American  
(c) Indian (d) Chinese  
(e) None of these

159. Makers of chips, soups, biscuits, juices and other packaged foods will soon have to display \_\_\_\_\_ colour coding on the front of packets of products that have high levels of fat, sugar or salt.  
(a) Yellow (b) White  
(c) Blue (d) Red  
(e) None of these
160. The 10th Mekong-Ganga Cooperation Ministerial Meeting (10th MGC MM) was held in-  
(a) Seoul (b) Manila  
(c) Bangkok (d) Hanoi  
(e) None of these

## ENGLISH LANGUAGE

**DIRECTION (Qs. 161-168):** Read the following passages carefully and answer the respective questions given below each of them. Certain words/phrases/sentences have been printed in bold to help you locate them while answering some of the questions.

Elections were in the air of the world's youngest democracy when I arrived in Thimphu. This was for a by-election in the capital city that dominated the conversation at dinners, even in Thimphu's most fun night-spot Mojo Park (the best music in town). Bhutan has taken to democracy with ease ever since 2008 when the first proper elections were held, a process India has helped out with, sending officials from the Election Commission travelling to check arrangements, explain electronic voting machine (EVM) technology and procedures. However, there are many things uniquely Bhutanese:

Monks and nuns in this deeply religious Buddhist majority are not allowed to vote, so as to avoid mixing religion and politics. All voters must wear their national dress on polling day, but no one-candidate, campaigner or voter-is allowed to wear the kabney silk and gyentag (scarf of honour, for men and women respectively, bestowed only by the King), patang (ceremonial sword), or any other sign of rank or royal patronage to avoid a misuse of influence. And, in deference to the environment, no posters can be put up on any public property, including trees, and are mostly restricted to a community billboard for all. Maybe a thing or two the world's largest democracy could learn from the youngest?

If you're in Thimphu, put the Textile Museum on your must-do list. The museum, run by the Royal Textile Academy is the project of Ashi Sangay Choden Wangchuck, one of the Queen Mothers of Bhutan (the former King had four Queens, all sisters). The museum is dedicated to preserving the oldest and rarest woven fabrics worn in Bhutan and used in their religious **scrolls** and Thangkhas. As you walk in, it is the 'Thongdrel' or massive silk work of the Zhabdrung Phuensum Tshogpa (in honour of a sacred meal served to Bhutan's political and spiritual founder in 1637) that greets you. The thongdrel stands 34 feet tall, running 23 feet across and is set against a glass window that runs three stories high.

Another on your must-see list is the relatively new Tara Lakhang and Pangrizampa monastery on the **outskirts** of Thimphu. This



170. I was not **(1) proud** of my **(2) was** project which **(3) science** a crude **(4) representation** of a planet.  
 (a) 1-3 (b) 2-3  
 (c) 3-4 (d) 1-4  
 (e) No change
171. Eating **(1) essentially** and **(2) drinking** soda will **(3) bread** break your **(4) low** carb diet.  
 (a) 3-4 (b) 2-3  
 (c) 1-3 (d) 2-4  
 (e) No change
172. Learning **(1) the** scales is **(2) a** fundamental **musician** **(3) of** being a **(4) part**.  
 (a) 2-4 (b) 1-3  
 (c) 3-4 (d) 1-2  
 (e) No change
173. The pirates **(1) crude** map was a **(2) treasure** depiction, but **(3) we** were still able to **(4) follow** the directions.  
 (a) 2-4 (b) 1-2  
 (c) 2-3 (d) 3-4  
 (e) No change

**DIRECTION (Qs. 174-183):** *In the passage given below there are blanks which are numbered from 14 to 23. They are to be filled with the options given below the passage against each of the respective numbers. Find out the appropriate word in each case which can most suitably complete the sentence without altering its meaning. If none of the words given in options fits in, mark 'None of these' as your answer choice.*

Now in the society, we are living on a world of machines. We.....174..... on machines for every field of our life. Everything around us is applications of artificial intelligence. Air conditioners, cameras, video games, medical equipment, traffic lights, refrigerators, etc work on a "smart" technology. Artificial Intelligence is a branch of computer science ....175..... works on to create computer systems .....176..... to react like a human being. That is to make machines capable of sensing the world around it, to understand conversations and to take decisions as a human would. Now, Computers have more computational power than the human brain; computers are millions of times .....177..... than they were fifty years ago. Human brains seem to be far "faster" than computers for a wide variety of tasks. Still, greater computational speed does make some so-called Artificial Intelligent systems .....178..... smarter. Artificial intelligence (AI) has a great role ....179..... the field of robotics. Artificial Intelligence in robotics covers topics like natural language processing, design, human factors, and computing theory. Natural language processing, a subfield of Artificial Intelligence ...180..... computers with the understanding they require to handle information being encoded by humans. Computer vision instructs computers on how to .....181..... images and scenes. It has as some of its goals: image recognition, image tracking and image mapping. This application is .....182..... in the fields of medicine, security, surveillance, military operations, even movie-making. Since the beginnings of civilization man has had a fascination for a human-like creation that .....183..... him. Robotics and machines come to existence from this logic Artificial Intelligence

to the Hollywood generation is mostly about androids, humanoids and robots. It is about machines going out of control, replacing humanity and world domination. This situation may happen in future due to the influence of Artificial Intelligence

174. (a) independent (b) Depend  
 (c) Agree (d) Make  
 (e) None
175. (a) That (b) Who  
 (c) Where (d) Whom  
 (e) They
176. (a) Vulnerable (b) Capable  
 (c) Capacity (d) Inept  
 (e) Incompetent
177. (a) Much Fast (b) Faster  
 (c) Foster (d) Slowly  
 (e) None
178. (a) Seen (b) Keen  
 (c) Seem (d) Happen  
 (e) Seems
179. (a) On (b) At  
 (c) To (d) In  
 (e) Important
180. (a) Provide (b) Resemble  
 (c) Provides (d) Indulge  
 (e) None
181. (a) Cooperate (b) Comprehend  
 (c) Perceived (d) Realizes  
 (e) None
182. (a) Valued (b) Evaluating  
 (c) Remembered (d) Worthless  
 (e) None
183. (a) Will Assist (b) Assist  
 (c) Would Assist (d) Won't Assist  
 (e) Assisting

**DIRECTION (Qs. 184-189):** *Which of the following phrases (I), (II), or (III) given below each sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark (e) i.e., "No correction required" as the answer.*

184. The decision by India, Afghanistan and Iran to hold an international event in February 2019 to promote Chabahar and **to studying ways to make the route more attractive** and decrease logistic costs is timely.  
 (I) to study ways to make the route more attractive  
 (II) to study ways to making the route more attractive  
 (III) to study ways to makes the route more attractive  
 (a) Only (I) is correct  
 (b) Only (II) is correct  
 (c) Only (III) is correct  
 (d) Both (I) and (III) are correct  
 (e) No correction required

185. The Chabahar port has received a waiver from the U.S. sanctions on Iran for the moment, but these concessions could be withdrawn any time, **giving the constant upheaval in the administration.**
- (I) given the constant upheaval in the administration.  
 (II) gave the constant upheaval in the administration.  
 (III) considering the constant upheaval in the administration.
- (a) Only (I) is correct  
 (b) Only (II) is correct  
 (c) Only (III) is correct  
 (d) Both (I) and (III) are correct  
 (e) No correction required
186. A crucial trilateral meeting of officials from India, Afghanistan and Iran on the strategically-important Chabahar port **was held on Monday during which they agreed on the routes** for trade and transit corridors between the three countries.
- (I) were held on Monday during which they agreed on the routes  
 (II) being held on Monday during which they agreed on the routes  
 (III) is held on Monday during which they agreed on the routes
- (a) Only (I) is correct  
 (b) Both (I) and (II) are correct  
 (c) Both (II) and (III) are correct  
 (d) All are correct  
 (e) No correction required
187. The Chabahar Port **is consider as a gateway to golden opportunities for trade by India**, Iran and Afghanistan with central Asian countries besides ramping up trade among the three countries after Pakistan denied transit access to India.
- (I) is considered a gateway to golden opportunities for trade by India  
 (II) had been consider a gateway to golden opportunities for trade by India  
 (III) is considering a gateway to golden opportunities for trade by India
- (a) Only (I) is correct  
 (b) Both (I) and (II) are correct  
 (c) Both (II) and (III) are correct  
 (d) All are correct  
 (e) No correction required
188. Elections in Bangladesh are famously a blood sport. During the campaigns virtually **every constituency turns into it own bull ring**, as party cadres treat rival banners like a matador's red cape.
- (I) every constituency turns into it's own bull ring  
 (II) Every constituency turns into it as own bull ring  
 (III) Every constituency turns into its own bull ring
- (a) Only (I) is correct  
 (b) Both (I) and (II) are correct

- (c) Both (I) and (III) are correct  
 (d) Only (III) is correct  
 (e) No correction required
189. Last week, a Ministry of Home Affairs (MHA) notification authorising 10 Central agencies to intercept, monitor, and decrypt online communications and data **cause a furore in both Parliament and the wider civil society.**
- (I) causing a furore in both Parliament and the wider civil society.  
 (II) caused a furore in both Parliament and the wider civil society.  
 (III) causes a furore in both Parliament and the wider civil society.
- (a) Only (I) is correct  
 (b) Only (II) is correct  
 (c) Only (III) is correct  
 (d) Both (I) and (III) are correct  
 (e) No correction required

**DIRECTION (Qs. 190-194):** Rearrange the following five sentences (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- A.** "Many parties make fun and tell us that we have no base in Haryana. They did the same in Delhi when they used to say that no one would vote for us.
- B.** It registered a record win in the national capital and now they were doing the same in Haryana, where the "party's graph was on the rise".
- C.** Stating that the AAP can provide a viable alternative to parties like the BJP, the Congress and the INLD, Mr. Kejriwal said his party was growing in Haryana.
- D.** Delhi Chief Minister Arvind Kejriwal said on Tuesday that political parties had underestimated the Aam Aadmi Party before
- E.** But people of Delhi had made up their mind and voted for us with overwhelming majority," he said addressing a public gathering here.
190. Which of the following will be the **FIRST** sentence after the rearrangement?
- (a) A (b) C  
 (c) D (d) E  
 (e) B
191. Which of the following will be the **THIRD** sentence after the rearrangement?
- (a) A (b) C  
 (c) D (d) E  
 (e) B
192. Which of the following will be the **FOURTH** sentence after the rearrangement?
- (a) A (b) C  
 (c) D (d) E  
 (e) B

193. Which of the following will be the **SECOND** sentence after the rearrangement?  
 (a) A (b) C  
 (c) D (d) E  
 (e) B
194. Which of the following will be the **FIFTH** sentence after the rearrangement?  
 (a) A (b) C  
 (c) D (d) E  
 (e) B

**DIRECTION (Qs. 195-200):** In each of the following sentences, there is a blank space. Below each such sentence, there are five options with one word each. Fill up the blank with the word that makes the sentence grammatically and contextually correct.

195. The author included an ..... in her speech when she referred to Romeo but didn't explain who he was.  
 (a) allusion (b) insinuate  
 (c) abjure (d) pruning  
 (e) Both (a) and (b)
196. Although Jared's parents are extremely wealthy, he acts like a normal person and does not ..... about his background.  
 (a) Brag (b) Tout  
 (c) Praising (d) Both (a) and (b)  
 (e) Callow
197. Sally did not give up her phone easily so her father had to ..... it from her hands.  
 (a) Pick (b) Drag  
 (c) Wrest (d) Twisting  
 (e) Both (b) and (c)
198. By searching my locker, you are trying to ..... that I stole the money.  
 (a) Predict (b) Pointing  
 (c) Both (a) and (d) (d) Insinuate  
 (e) Sure
199. It is illegal to ..... with the property of another person, such as painting a fence that is on their property.  
 (a) Adjusted (b) Both (a) and (c)  
 (c) Defacing (d) Harmed  
 (e) Tamper
200. Her reputation was that she liked to ..... into people's private lives.  
 (a) Thought (b) Depose  
 (c) Meddling (d) Pry  
 (e) Both (c) and (d)

## HINDI LANGUAGE

**निर्देश (प्र. सं. 201-205):** नीचे दिए गए गद्यांश को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए।

शिक्षक को अपना उत्तरदायित्व समझना होगा। विश्वविद्यालय अनुदान आयोग तथा विभिन्न राज्य सरकारों ने शिक्षकों के वेतनमानों में पर्याप्त

सुधार किए हैं, अनेक अतिरिक्त सुविधाएँ प्रदान की हैं, इसलिए वे अब यह तर्क नहीं दे सकते कि उन्हें आजीविका की चिन्ता में छात्रों के हित को सोचने का अवसर नहीं मिल पाता। यदि उन्हें समाज में सम्मान पाना है, छात्रों की श्रद्धा पानी है, तो प्राचीन गुरुकुल पद्धति से कुछ गुण ग्रहण करने होंगे। शिक्षा कोई व्यवसाय नहीं है जहाँ हमेशा लाभ पर दृष्टि टिकी रहती है। यह तो धर्मक्षेत्र है, विश्व, देश, समाज और जन-जन का उत्थान शिक्षकों पर निर्भर रहता है। नई पीढ़ी को शिक्षक जिस मार्ग पर चलाना चाहेंगे, उसी राह पर वे चलेंगे, नहीं चलाएँगे, तो वे नहीं चलेंगे, भटकाएँगे, तो भटक जाएँगे, उठाएँगे तो उठेंगे। छात्र तो क्यारी के कोमल फूल होते हैं और शिक्षक उनके माली। माली यदि समय पर उन्हें खाद-पानी देंगे, तो वे खिलेंगे, नहीं देंगे, तो वे मुरझा जाएँगे। शिक्षकों को तप, त्याग, निःस्वार्थ भावना आदि सद्गुणों का महत्त्व समझना होगा। जब शिक्षक इन गुणों को अपने भीतर विकसित करेंगे, तभी वे अपने छात्रों को इन गुणों को थाती के रूप में सौंप सकेंगे। शिक्षक-छात्र सम्बन्ध में मधुरता केवल शिक्षक और छात्र को ही सन्तोष नहीं देगी, उनके परिवारों और आसपास को भी प्रभावित करेगी। स्वस्थ मन के नागरिक उत्पन्न करने के लिए शिक्षक-छात्र सम्बन्धों का स्वस्थ होना आवश्यक है।

201. छात्रों को शिक्षा प्रदान करना शिक्षक का:  
 (a) व्यवसाय है  
 (b) वैशिष्ट्य है  
 (c) व्यसन है  
 (d) धर्म है  
 (e) इनमें से कोई नहीं
202. शिक्षक नई पीढ़ी के लिए प्रेरणा-स्रोत तभी बन सकता है, जब वह  
 (a) शिक्षक-छात्र सम्बन्धों में मधुरता का समावेश करे  
 (b) तप, त्याग आदि सद्गुणों का महत्त्व समझे  
 (c) अपने अन्दर सद्गुणों की शिक्षा दे  
 (d) विद्यार्थियों को सद्गुणों की शिक्षा दे  
 (e) इनमें से कोई नहीं
203. शिक्षक की मुख्य चिन्ता होनी चाहिए:  
 (a) वेतनमानों में सुधार  
 (b) अपने परिवार का भरण-पोषण  
 (c) भोग-विलास की सामग्री जुटाना  
 (d) समुचित शिक्षा के द्वारा छात्रों का अधिकाधिक हित साधन  
 (e) इनमें से कोई नहीं
204. उपर्युक्त अवतरण का सर्वाधिक उपयुक्त शीर्षक है:  
 (a) शिक्षक-छात्र सम्बन्ध (b) शिक्षक और उसका व्यवसाय  
 (c) शिक्षक का उत्तरदायित्व (d) शिक्षक और समाज  
 (e) इनमें से कोई नहीं
205. शिक्षक का मुख्य कर्तव्य है:  
 (a) छात्रों को पुस्तकीय ज्ञान प्रदान करना  
 (b) छात्रों की सर्वतोमुखी प्रतिभा का विकास करना  
 (c) छात्रों का चारित्रिक विकास  
 (d) समाज-कल्याण  
 (e) इनमें से कोई नहीं

**निर्देश (प्र. सं. 206-210):** नीचे दिए गए गद्यांश को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए।

कवि अपनी कल्पना के पंखों से इसी विश्व के गीत लेकर अनन्त आकाश में उड़ता है और उन्हें मुक्त व्योम में बिखरा कर अपने भाराक्रान्त हृदय को हल्का कर फिर अपने विश्वनीड में लौट आता है। इसी से कवि को विश्राम और स्वास्थ्य मिलता है और स्वस्थ होकर वह नूतन प्रभात में नूतन हृदय में नित्य नूतन संसार का स्वागत करता है। यदि ऐसा न हो तो कवि भी अन्य सांसारिक प्राणियों की भाँति ही, विश्व के कोलाहल में अपने आप को खो दे तथा उसके द्वारा संसार को वे अमृत गीत न मिलें जिनके सरल शीतल स्रोत में बहकर मानव-जगत् अपने सन्तप्त प्राणों को कुछ क्षण जुड़ा लेता है।

206. संसार में कवि का हृदय भाराक्रान्त होता है क्योंकि

- उसे हर समय सांसारिक दुःख-द्वन्द्वों से गुजरना पड़ता है
- उसे घर-गृहस्थी का भार ढोना पड़ता है
- अनेक तरह के भावों और विचारों का द्वन्द्व उसके मन में होता रहता है
- कविता के भावों से उसका हृदय भरा रहता है जिनकी अभिव्यक्ति के लिए उसका कल्पनालोक में विचरण आवश्यक होता है
- इनमें से कोई नहीं

207. 'व्योम' शब्द के लिए पर्यायवाची शब्द है

- पाताल
- आकाश
- स्वर्ग
- लोकातीत
- इनमें से कोई नहीं

208. उपर्युक्त अवतरण का उपयुक्त शीर्षक होगा

- कल्पनालोक का प्राणी कवि
- अमृतगीत का रचयिता कवि
- कवि और उसका निराला संसार
- संसार को कवि का अवदान
- इनमें से कोई नहीं

209. कवि कल्पना के अनन्त आकाश में इसलिए उड़ता है कि

- उसका हृदय भाराक्रान्त होता है
- वह संसार से दूर भागना चाहता है
- वह मुक्त व्योम को अपना गीत सुनाना चाहता है
- कल्पना-लोक में विचरण करना कवि के व्यापार का मुख्य अंग है
- इनमें से कोई नहीं

210. यदि कवि अपने कल्पना-लोक में विचरण न करता, तो

- उसका जीवन संसार में दूभर हो जाता
- वह संसार में अपना अस्तित्व खो बैठता
- वह संसार को सुंदर काव्य रचनाएँ न दे पाता
- संसार कवि की कविता से वंचित होकर रहने योग्य स्थान न रह जाता
- इनमें से कोई नहीं

**निर्देश (प्र.सं. 211-220):** नीचे दिए गए परिच्छेद में कुछ रिक्त स्थान छोड़ दिए गए हैं तथा उन्हें प्रश्न संख्या से दर्शाया गया है। ये संख्याएँ परिच्छेद के नीचे मुद्रित हैं और प्रत्येक के सामने (1), (2), (3), (4) और (5) विकल्प दिए गए हैं। इन पांचों में से कोई एक इस रिक्त स्थान को पूरे परिच्छेद के संदर्भ में उपयुक्त ढंग से पूरा कर देता है। आपको वह विकल्प ज्ञात करना है, और उसका क्रमांक ही उत्तर के रूप में दर्शाना है आपको दिए गए विकल्पों में से सबसे उपयुक्त का चयन करना है।

यह बहुत पुरानी बात है। मैं उत्तर प्रदेश के एटा जिले की तहसील कासगंज के एक हाई स्कूल में सातवीं कक्षा में पढ़ता था। पढ़ता क्या था, छठीं पास के करने के बाद सातवीं में (211) ही था। जुलाई का महीना था। गरमी की छुट्टियों के बाद (212) खुल गया था। मेरे लिए नयी (213) की किताबें आ गयी थीं। नयी छपी हुई किताबों की गंध, जो पता नहीं, नये कागज की होती थी या उस पर की गयी (214) में इस्तेमाल हुई स्याही की, या जिल्दसाजी में (215) चीजों की, या बरसात के मौसम में कागज में आयी हल्की-सी (216), मुझे बहुत अच्छी लगती थी। ज्यों ही मेरे लिए नयी (217) आतीं, मैं सबसे पहले अपनी हिंदी की पाठ्य-पुस्तक पढ़ डालता। सो एक दिन स्कूल से लौटकर मैं अपनी हिंदी की पाठ्य-पुस्तक (218) रहा था, जिसमें एक पाठ था 'बड़े भाई साहब'। पुस्तक में अवश्य ही लिखा रहा होगा कि यह एक (219) है और इसके लेखक हैं प्रेमचंद। लेकिन इस सबसे मुझे क्या! मैं तो 'बड़े भाई साहब' (220) देखकर ही उसे पढ़ने लगा।

- (a) पढ़ता (b) आया
- (c) घुसा (d) पढ़ा
- (e) उठा
- (a) रास्ता (b) मौसम
- (c) कॉलेज (d) स्कूल
- (e) शरीर
- (a) नवीन (b) पढ़ाई
- (c) कक्षा (d) छपाई
- (e) पुरानी
- (a) छपाई (b) नक्काशी
- (c) सजावट (d) कसीदकारी
- (e) छिड़काई
- (a) फंसी (b) दबी
- (c) जड़ी (d) लगी
- (e) उभरी
- (a) पीलाई (b) सफेदी
- (c) बूंदों (d) नीलाई
- (e) सीलन
- (a) कॉपियाँ (b) साइकिलें
- (c) किताबें (d) पेंसिलें
- (e) पढ़ाईयाँ
- (a) पढ़ (b) खोल
- (c) घोट (d) रट
- (e) दिखा
- (a) कविता (b) कहानी
- (c) उपन्यास (d) लोककथा
- (e) नसीहत
- (a) को (b) की तरफ
- (c) को सामने (d) को बोल
- (e) शीर्षक

**निर्देश (प्र. सं. 221-230):** नीचे विविध प्रकार के प्रश्न दिए गये हैं। निम्नलिखित प्रत्येक प्रश्न के नीचे उसके पांच विकल्प दिए गए हैं। दिए गए विकल्पों में से सही विकल्प चुनिए।

221. 'मन की वृत्ति' के लिए एक शब्द है-
- (a) अग्रणी (b) गोधूलि  
(c) मनोवृत्ति (d) मृदुभाषी  
(e) इनमें से कोई नहीं
222. 'तिक्त' शब्द का विलोम है-
- (a) मधुर (b) ध्वंस  
(c) अव्यक्त (d) सिद्ध  
(e) इनमें से कोई नहीं
223. 'नैसर्गिक' शब्द का विलोम है-
- (a) भिन्न (b) तरल  
(c) सम्पन्न (d) कृत्रिम  
(e) इनमें से कोई नहीं
224. 'गमन' शब्द का विलोम है-
- (a) सार्थक (b) आगमन  
(c) अभाग्य (d) नश्वर  
(e) इनमें से कोई नहीं
225. 'हर्ष' शब्द का विलोम है-
- (a) विषाद (b) संदिग्ध  
(c) अहित (d) सौम्य  
(e) इनमें से कोई नहीं
226. 'टांग अड़ाना' मुहावरे का अर्थ है -
- (a) हार जाना (b) भाग जाना  
(c) बाधा डालना (d) घबरा जाना  
(e) इनमें से कोई नहीं
227. 'जहाँ लोगों का मिलन हो' के लिए एक शब्द है-
- (a) लंकाेश (b) द्विपद  
(c) निर्मम (d) सम्मेलन  
(e) इनमें से कोई नहीं
228. 'जिसके पार देखा जा सके' के लिए एक शब्द है-
- (a) अपारदर्शक (b) पारदर्शक  
(c) आलोचक (d) आमरण  
(e) इनमें से कोई नहीं
229. 'जो सब-कुछ जानता हो' के लिए एक शब्द है-
- (a) सर्वज्ञ (b) अभिज्ञ  
(c) वर्णित (d) अनबोला  
(e) इनमें से कोई नहीं
230. समानार्थी शब्द का चयन कीजिए :
- 'नियति'
- (a) चरित्र (b) स्वभाव  
(c) कर्म (d) भाग्य  
(e) इनमें से कोई नहीं

**निर्देश (प्र.सं. 231-235):** नीचे दिए गए वाक्यों में रिक्त स्थानों की उचित शब्दों द्वारा पूर्ति के लिए पांच विकल्प दिए गए हैं। उपयुक्त विकल्प का चयन कीजिए।

231. शिव का तांडव भी उतना ही मनोहारी है जितना कि .....
- (a) रास (b) महारास  
(c) लास्य (d) उल्लास  
(e) इनमें से कोई नहीं

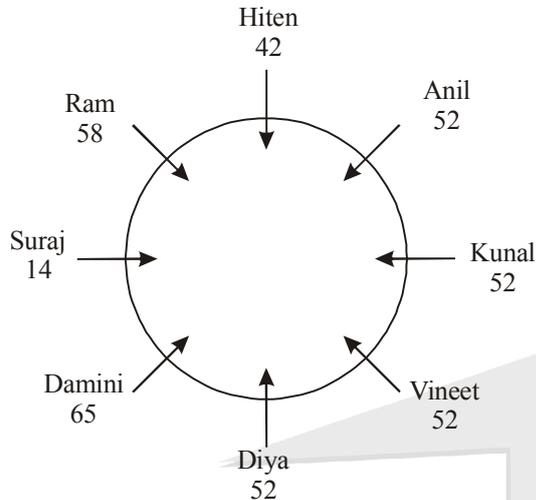
232. सभी भारतीय भगवद्गीता के ..... से परिचित हैं।
- (a) गुणगान (b) माहात्म्य  
(c) नैरात्म्य (d) अभिज्ञान  
(e) इनमें से कोई नहीं
233. .... का नाम जीवन है और स्थिरता का मृत्यु।
- (a) स्थिति (b) गति  
(c) नियति (d) सुमति  
(e) इनमें से कोई नहीं
234. आप पधारिए और ..... ग्रहण कीजिए।
- (a) आसन्न (b) व्यसन  
(c) असन (d) आसन  
(e) इनमें से कोई नहीं
235. वृद्धा ने बौद्ध भिक्षु को ..... दी।
- (a) दीक्षा (b) परीक्षा  
(c) भिक्षा (d) बुभुक्षा  
(e) इनमें से कोई नहीं

**निर्देश (प्र. सं. 236-240):** नीचे दिया गया प्रत्येक वाक्य चार भागों में बांटा गया है जिन्हें (a), (b), (c), (d) विकल्प दिए गए हैं। आपको यह देखना है कि वाक्य के किसी भाग में व्याकरण, भाषा, वर्तनी, शब्दों के गलत प्रयोग या इसी तरह की कोई त्रुटि तो नहीं है। त्रुटि अगर होगी तो वाक्य के किसी एक भाग में ही होगी। उस भाग का क्रमांक ही उत्तर है। यदि वाक्य त्रुटि रहित है तो उत्तर (e) अर्थात 'त्रुटिरहित' दीजिए।

236. मेरे मन ने (A)/ ऐसी दुर्घटना (B)/ घट जाने की (C)/ कल्पना भी न की थी। (D)/ त्रुटिरहित (E)
- (a) A (b) B  
(c) C (d) D  
(e) E
237. उस सड़क पर (A)/ दो-दो मील पर (B)/ एक-एक पत्थर (C)/ लगा हुआ था। (D)/ त्रुटिरहित (E)
- (a) A (b) B  
(c) C (d) D  
(e) E
238. यह बात (A)/ एक उदाहरण से (B)/ अच्छी तरह (C)/ समझाया जा सकता है। (D)/ त्रुटिरहित (E)
- (a) A (b) B  
(c) C (d) D  
(e) E
239. अपनी माँ के (A)/ डाँटने पर भी (B)/ वह इतनी रोती है (C)/ कि हम सब तंग हो जाते हैं। (D)/ त्रुटिरहित (E)
- (a) A (b) B  
(c) C (d) D  
(e) E
240. अगर अनुराधा को (A)/ मुझसे बात नहीं करना था (B)/ तो वह मेरे यहाँ (C)/ आई ही क्यों? (D)/ त्रुटिरहित (E)
- (a) A (b) B  
(c) C (d) D  
(e) E

## HINTS & SOLUTIONS

Sol. (1-5)



- (b) Kunal sits third to the right of Damini.
- (d) The one who is 42 years old sits opposite to the one who is 52 years old.
- (a) Third to the right.
- (a) 86 years is the sum of age of Ram and Anil.
- (b) Anil- 65 is false.

Sol. (6-10):

| Floor | Friends |
|-------|---------|
| 9     | Jiya    |
| 8     | Sudhir  |
| 7     | Bindu   |
| 6     | Vacant  |
| 5     | Airth   |
| 4     | Esha    |
| 3     | Deepa   |
| 2     | Farah   |
| 1     | Cyan    |

- (d) Jiya lives on the topmost floor.
- (b) Deepa lives on Floor 3.
- (d) Floor no. 6 is vacant.
- (a) Bindu lives just below Sudhir.
- (b) Esha lives two floor above Farah.

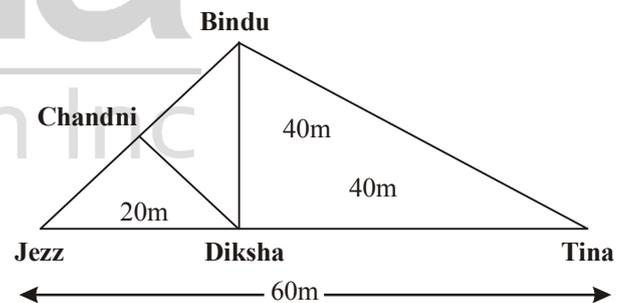
Sol. (11-15):

| Number | Box |
|--------|-----|
| 10     | A   |
| 9      | B   |
| 8      | C   |
| 7      | D   |
| 6      | E   |
| 5      | F   |
| 4      | G   |
| 3      | H   |
| 2      | I   |
| 1      | J   |

- (b) Box A is placed at the top.
- (b) Box E and Box F are placed in the middle of the arrangement.
- (c) Box A, C does not belong to the group.
- (c) Box G is placed at position no. 4.
- (d) Box D is placed immediately above Box E.

Sol. (16-18):

- (d)



Distance covered by Bindu while going to Diksha and then reaching Tina = 40 + 40 = 80 m

Distance covered by Bindu while going straight to

$$\text{Tina} = \sqrt{(40)^2 + (40)^2} = \sqrt{3200}$$

$$= 56.56 \text{ m}$$

Therefore, the distance saved = 80 – 56.56

$$= 23.44 \text{ m}$$

- (b) As per the diagram, the distance between Diksha and Bindu is 40 m while the distance between Diksha and Tina is also 40 m. Clearly, if we connect the points Bindu, Diksha and Tina, they will form an isosceles right triangle with angle BDT (Bindu, Diksha, Tina) to be 90°. Therefore, the angle BTD (Bindu, Tina, Diksha) must be 45°.
- (a) Bindu is in North-West direction with respect to Tina.

Sol. (19-20):

19. (a) The resultant position = 15th – 4th = 11th element from the left  
Now, while counting from the left, we'll start counting from A and will keep on counting till Y. After that we'll continue counting from \$ towards the left and will finish on the 11th element in the count.  
Doing so, the 11th element from the left = U

20. (a) The resultant position = 9th + 2nd = 11th from the right  
Counting from the right, the 11th element is W and the previous letter to W in English Alphabet is V.

Sol. (21-25):

We denote the direction North as N and South as S in this arrangement.

|               |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|
| Person(Row-1) | U | Z | P | S | V | O |
|               | N | N | N | S | N | S |

|               |   |   |   |     |   |   |
|---------------|---|---|---|-----|---|---|
| Person(Row-2) | W | Q | T | Y   | X | R |
|               | S | N | S | N/S | N | N |

21. (a) We get "S and O"..  
22. (a) We get "Both the persons faces North".  
23. (b) We get "V and X". Immediate right of O is V & Third to the right of Q is X.  
24. (c) We get "Y". Except Y, the directions of all the others are confirmed.  
25. (d) We get "Q". P is seated second to the right of U and in same way Z is seated second to the right of S and in same way Y is seated second to the right of Q.

Sol. (26-30):

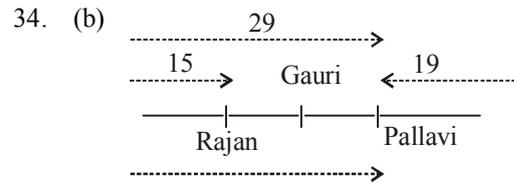
| Months/Dates | 3rd      | 8th      |
|--------------|----------|----------|
| March        | W-Green  | Q-Red    |
| June         | P-Peda   | T-Laddu  |
| September    | V-Barfi  | S-Jalebi |
| December     | R-Yellow | U-Blue   |

26. (d) W likes Green colour.  
27. (b) Two people were born between Q and one who likes Barfi.  
28. (c) S does not belongs to the group.  
29. (e) The one who likes Barfi was born on 3rd September  
30. (a) R likes yellow colour.

Sol. (31-33):

|       |    |
|-------|----|
| Free  | su |
| Live  | ph |
| Well  | bg |
| Die   | md |
| To    | ke |
| Life  | oh |
| Right | va |
| Make  | tl |
| Home  | m  |
| Your  | ri |

31. (c) 'ph bg ke' is the code for 'To Live Well'  
32. (a) 'va' stands for 'Right'  
33. (b) 'va rn' is the code for 'Right Home'

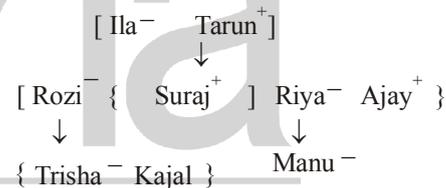


Here the total number of persons in the queue = (29 + 19 – 1) = 47

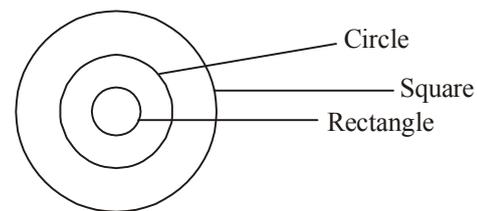
29 is derived by adding Rahul's position from left end of the row (24) and his position with respect to Pallavi (5).

35. (c) First, third, fourth and seventh letters of ONEROUS are O,E,R and S.  
Meaningful English words are -  
ROSE - A flower.  
SORE - Painful, Aching.  
ORES - Raw metal  
As three meaningful English words can be formed, thus M would be the answer.

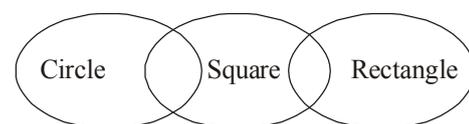
Sol. (36-37):



36. (c) Clearly, Rozi is the wife of Suraj who is brother in law of Maynk.  
37. (a) Tarun is father of suraj.  
38. (a) Only conclusion I follows



or



Here, All rectangles being squares is doubtful and in possibility case doubtful conclusion is always true, we can observe that the class 'squares' is not being distributed even once in either of the statements, therefore, conclusion II doesn't follow.

39. (e) Both statement I and II

From statement I:

$A > D, A > B, E > A$

From statement II:

C did not get the highest marks.

From statement III:

D did not get the lowest marks.

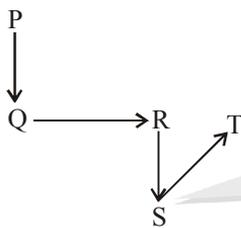
Both statements I and II together:

$E > A > D$ , B and C did not get the highest marks.

Hence, E got the highest marks.

40. (a) All the statements are required to answer the question.

By combining all the statements together:



41. (c) Total profit = Sale – Cost of production

Total profit occurred in the year 2015

$$= 160000 - 140000 = ₹ 20000$$

Total profit occurred in the year 2016

$$= 300000 - 240000 = ₹ 60000$$

Total profit occurred in the year 2017

$$= 400000 - 340000 = ₹ 60000$$

Total profit occurred in the year 2018

$$= 500000 - 450000 = ₹ 50000$$

Total profit occurred in the year 2019

$$= 600000 - 364000 = ₹ 236000$$

$$\text{Total profit} = ₹ 426000$$

42. (b) Profit in 2017 =  $400000 - 340000 = ₹ 60000$

$$\text{Profit in 2016} = 500000 - 450000 = ₹ 50000$$

$$\therefore \text{Required ratio} = \frac{60000}{50000} = \frac{6}{5}$$

43. (e) The question cannot be answered since the cost price per unit is not given.

44. (a) Selling price of goods Q in 2016 =  $40000 \times 30$   
= ₹ 1200000

$$\text{Cost of production} = 1200000 - 100000 = ₹ 1100000$$

$$\text{Profit percent} = \frac{100000}{1100000} \times 100 = 9.09\%$$

45. (b) Let the total profit be ₹ 'P',

Raman and Mohan invested in a business with ₹138000 and ₹ 90000 respectively.

$$\Rightarrow \text{Ratio in which the profit will divide} = 23 : 15.$$

50% of the profit should be divided equally between them and rest is divided according to the investment and Raman got 800 rupees more than Mohan.

$$\therefore \left( \frac{23}{38} - \frac{15}{38} \right) \times \frac{50}{100} \times P = 800$$

$$\frac{8}{38} \times \frac{1}{2} \times P = 800$$

$$P = 19 \times 400 = 7600$$

$$\therefore \text{total profit} = ₹ 7600$$

46. (b) Time taken by A to fill 20% = 20 minutes

Hence, A fills 100% = 100 minutes

Time taken by B to fill 10% = 30 minutes

Hence, B fills 100% = 300 minutes

Time taken by Empty tap to empty 75% = 120 minutes

Hence, empty tap empties 100% = 160 minutes

Let total capacity of the tank

$$= \text{LCM}(100, 300, 160) = 2400 \text{ units}$$

$$\text{Capacity of A} = \frac{2400}{100} = 24 \text{ units}$$

$$\text{Capacity of B} = \frac{2400}{300} = 8 \text{ units}$$

$$\text{Capacity of empty tap} = \frac{2400}{160} = -15 \text{ units}$$

$$\text{Filled tank in 1 minute} = 24 + 8 - 15 = 17 \text{ units}$$

$$\text{Filled tank in 14 minutes} = 14 \times 17 = 238 \text{ units}$$

$$\text{Rest units} = 2400 - 238 = 2162 \text{ units}$$

$$\text{Capacity of A} + \text{B} = 24 + 8 = 32 \text{ units}$$

Time taken by A and B to fill 2162 units

$$= \frac{2162}{32}$$

$$= 67.56 \text{ minutes.}$$

47. (d) C taken time to fill 15% = 90 minutes

Hence, C fills 100% = 600 minutes

D takes time to fill 30% = 60 minutes

Hence, D fills 100% = 200 minutes

Empty tap empties 100% = 100 minutes

Let total capacity of the tank

$$= \text{LCM}(600, 200, 100) = 600 \text{ units}$$

$$\text{Capacity of C} = \frac{600}{600} = 1 \text{ unit}$$

$$\text{Capacity of D} = \frac{600}{200} = 3 \text{ units}$$

$$\text{Capacity of empty tap} = \frac{600}{100} = 6 \text{ units}$$

$$\text{Tank filled in 20 minutes} = 20 \times 1 + 20 \times 3 = 80 \text{ units}$$

Work done by (C + D + Empty tap on) 1 minute

$$= 1 + 3 - 6 = -2 \text{ units}$$

Tank emptied in =  $\frac{80}{2} = 40$  minutes.

48. (c) Time taken by A to fill 20% = 20 minutes  
Hence, A fills 100% = 100 minutes  
Time taken by E to fill 25% = 70 minutes  
Hence, E fills 100% = 280 minutes  
Let empty tap empties 100% in  $y$  minutes  
Let total capacity of tank  
= LCM (100, 280) = 1400 units

Capacity of A =  $\frac{1400}{100} = 14$  units

Capacity of E =  $\frac{1400}{280} = 5$  units

Capacity of empty tap =  $\frac{1400}{y}$  units.

Tank filled in 1 minute =  $\left(19 - \frac{1400}{y}\right)$  units

Tank filled in 100 minutes

=  $100 \times \left(19 - \frac{1400}{y}\right)$  units

$100 \times \left(19 - \frac{1400}{y}\right) = 1400$

$100 \times (19y - 1400) = 1400y$

$1900y - 140000 = 1400y$

$500y = 140000$

$y = \frac{140000}{500} = 280$  minutes.

49. (d) C taken time to fill 15% = 90 minutes  
Hence, C fills 100% = 600 minutes  
Time taken by D to fill 30% = 60 minutes  
Hence, D fills 100% = 200 minutes  
Let capacity of the tank = LCM of (300, 600, 200)  
= 600 units

Capacity of C =  $\frac{600}{600} = 1$  unit

Capacity of D =  $\frac{600}{200} = 3$  units

Capacity of empty tap =  $\frac{600}{300} = 2$  units.

Tank filled in 1 minute =  $1 + 3 - 2 = 2$  units

Tank filled in 300 minutes = 600 units

So, the capacity of the tank = 600 units

50. (a) Time taken by B to fill 10% = 30 minutes  
Hence, B fills 100% = 300 minutes  
Time taken by C to fill 15% = 90 minutes  
Hence, C fills 100% = 600 minutes  
Let capacity of tank = LCM of (300, 600)  
600 units

Capacity of B =  $\frac{600}{300} = 2$  units

Capacity of C =  $\frac{600}{600} = 1$  unit

Let the total time =  $t$

(B + C) capacity =  $2 + 1 = 3$  units

$\left(2 \times \frac{t}{2}\right) + \left(3 \times \frac{t}{2}\right) = 600$

$5t = 1200$

$t = \frac{1200}{5} = 240$  minutes.

51. (b) Quantity A:

CP = ₹ 20000,

SP = ₹ 24000

Initial discount percentage = 20%

$24000 \times \frac{100}{80}$

⇒ MP = ₹ 30000

New discount percentage = 30%

⇒ New SP = ₹ 21000

⇒ Profit % =  $\frac{1000}{20000} \times 100 = 5\%$

Quantity B:

The selling price is increased by 20%

$24000 \times \frac{120}{100}$

⇒ New SP = ₹ 28800

⇒ Profit% =  $\frac{8800}{20000} \times 100 = 44\%$

∴ Quantity B > Quantity A

52. (b) Quantity A:

A person saves 120 minutes when he increases his speed from 20 km/hr to 30 km/hr to cover a certain distance.

Let the distance covered be ' $d$ ' km

⇒ Time to cover when speed is 20 km/hr =  $d/20$

⇒ Time to cover 30 km/hr =  $\frac{d}{30}$

Difference in time = 120 minutes

$$\frac{d}{20} - \frac{d}{30} = \frac{120}{60}$$

$$\frac{d}{60} = \frac{120}{60}$$

$$\therefore d = 120 \text{ km.}$$

Quantity B:

He covers at a speed of 60 km/hr for 3 hours.

$$\Rightarrow d = 180 \text{ km}$$

$\therefore$  Quantity B > Quantity A

53. (a) Quantity A: If the compound interest for 2 years at 20% rate of interest is ₹ 1210

$$CI = P(1 + R/100)^t - P \Rightarrow 1210 = P \left[ \frac{144}{100} - 1 \right]$$

$$1210 = P \left( \frac{44}{100} \right)$$

$$1210 = P \times 11/25$$

$$P = \frac{1210 \times 25}{11} = 2750$$

Quantity B : The sum of money will produce ₹ 600 interest in 4 years at 6% simple interest.

$$S.I. = \frac{P \times R \times T}{100}$$

$$600 = \frac{P \times 6 \times 4}{100}$$

$$P = \frac{600 \times 100}{6 \times 4} = 2500$$

Quantity B < Quantity A

54. (a) Quantity A :

Four years before, the ratio of ages of X and Y was 5 : 6,

Four years hence this ratio will become 6 : 7,

5 : 6

6 : 7

Difference in ratio for X = 1 and

Difference in years = 8

$$1 = 8$$

Present age of X = 5 × 8 + 4 = 44 years.

Quantity B :

6 years before the ratio of ages of X and Y was 2 : 3

6 years hence the ratio will become 3 : 4

2 : 3

3 : 4

Difference in ratio for X = 1 and

Difference in years = 12

$$1 = 12$$

Present age of X = 2 × 12 + 6 = 30 years

$\therefore$  Quantity A > Quantity B

55. (a) Quantity A: Let he answers x% of the remaining questions to score 75% on entire test

$$\Rightarrow \frac{x}{100} \times 50 + \frac{60}{100} \times 50 = \frac{75}{100} \times 100$$

$$\frac{x}{2} = 75 - 30$$

$$\therefore x = 90\%$$

Quantity B :

The price of an article is reduced by 30%

$$\Rightarrow \text{Change in price} = 100 : 70 = 10 : 7$$

The daily sale of the article is increased by 40%

$$\Rightarrow \text{Change in sale} = 100 : 140 = 5 : 7$$

$$\Rightarrow \text{Net effect} = 50 : 49$$

$$\Rightarrow \text{Percentage change} = \frac{1}{50} \times 100 = 2\%$$

$\therefore$  Quantity A > Quantity B

56. (d) Total number of students = 800

Number of students play Cricket

$$= \frac{15}{100} \times 800 = 120$$

Number of students play Football

$$= \frac{1}{5} \times 800 = 160$$

Number of students play Badminton

$$= \frac{1}{10} \times 800 = 80$$

Number of students play Basketball

$$= \frac{12}{100} \times 800 = 96$$

$\Rightarrow$  Number of students play Athletics

$$= \frac{18}{100} \times 800 = 144$$

$\Rightarrow$  Number of students play Hockey

$$= \frac{11}{100} \times 800 = 88$$

$\Rightarrow$  Number of remaining students

$$= 800 - (120 + 160 + 80 + 96 + 144 + 88)$$

$$= 800 - 688 = 112$$

$\Rightarrow$  Number of students play Tennis

$$= \frac{3}{7} \times 112 = 48$$

$\Rightarrow$  Number of students play Baseball

$$= \frac{4}{7} \times 112 = 64$$

| Name of sports | Number of players played | Male | Female |
|----------------|--------------------------|------|--------|
| Cricket        | 120                      | 120  | 0      |
| Football       | 160                      | 96   | 64     |
| Badminton      | 80                       | 56   | 24     |
| Basketball     | 96                       | 32   | 64     |
| Athletics      | 144                      | 80   | 64     |
| Hockey         | 88                       | 44   | 44     |
| Tennis         | 48                       | 32   | 16     |
| Baseball       | 64                       | 40   | 24     |

The no of male students who play hockey, baseball and athletics =  $44 + 40 + 80 = 164$

The female students who play football, tennis and basketball =  $64 + 16 + 64 = 144$

∴ Required percentage

$$= \frac{(164 - 144)}{144} \times 100 = \frac{20}{144} \times 100 = 13.89\%$$

57. (d) Total no. of female students  
 $= 64 + 24 + 64 + 64 + 44 + 16 + 24 = 300$   
 Total no. of male students  
 $= 800 - 300 = 500$

$$\therefore \text{Required ratio} = \frac{500}{300} = 5 : 3$$

58. (d) Total no. of female students  
 $= 64 + 24 + 64 + 64 + 44 + 16 + 24 = 300$

$$\therefore \text{Required Percentage} = \frac{300}{800} \times 100 = 37.5\%$$

59. (a) ∴ Required ratio =  $120 : 44 = 30 : 11$

60. (d) ∴ Required percentage

$$= \frac{96}{64} \times 100 = 150\%$$

61. (c) As wholesaler made payment within a week he had received 3% cash discount  
 So, selling price after adjusting discount  
 $= \text{MRP} - (3\% \text{ of MRP})$   
 ATQ,  
 $\Rightarrow 2910 = \text{MRP} - (3\% \text{ of MRP})$

$$\begin{aligned} \Rightarrow 2910 &= 97\% \text{ of MRP} \\ \Rightarrow \text{MRP} &= (2910 \times 100)/97 \\ \Rightarrow \text{MRP} &= ₹ 3000 \end{aligned}$$

As we know,

$$\begin{aligned} \Rightarrow \text{Cost price} &= \text{MRP} - 5\% \text{ of MRP} \\ \Rightarrow \text{Cost price} &= 95\% \text{ of } 3000 \\ \Rightarrow \text{Cost price} &= ₹ 2850 \end{aligned}$$

∴ Cost price of 100 boxes of pen for Rohan is ₹ 2850  
 ∴ The retailer made the cash payment, he had received 2% cash discount

$$\begin{aligned} \therefore \text{Selling price after adjusting discount} \\ &= \text{MRP} - (2\% \text{ of MRP}) \end{aligned}$$

ATQ,

$$\begin{aligned} \Rightarrow 3430 &= \text{MRP} - (2\% \text{ of MRP}) \\ \Rightarrow 3430 &= 96\% \text{ of MRP} \\ \Rightarrow \text{MRP} &= ₹ 3500 \end{aligned}$$

As we know,

$$\begin{aligned} \Rightarrow \text{Cost price} &= \text{MRP} - 5\% \text{ of MRP} \\ \Rightarrow \text{Cost price} &= 95\% \text{ of } 3500 \\ \Rightarrow \text{Cost price} &= ₹ 3325 \end{aligned}$$

∴ Cost price of 50 Notebooks for Rohan is ₹ 3325  
 ∴ Required ratio =  $2850 : 3325 = 6 : 7$

62. (a) ∴ MRP of products =  $250 \times 4 = ₹ 1000$   
 ∴ Amount at which the product should be sold to a retailer =  $\text{MRP} + 10\% \text{ of MRP}$   
 $= 110\% \text{ of MRP} = 110\% \text{ of } 1000 = ₹ 1100$   
 Retailer was ready to make 1/2 of payment immediately.  
 ∴ Amount eligible to cash discount =  $1100/2 = ₹ 550$   
 ∴ Cash discount =  $2\% \text{ of } 550 = ₹ 11$   
 ∴ Amount actually receivable from retailer  
 $= 1100 - 11 = ₹ 1089$   
 ∴ Cost price =  $\text{MRP} - 5\% \text{ of MRP}$   
 $= 95\% \text{ of MRP} = 95\% \text{ of } 1000 = ₹ 950$   
 ∴ Amount at which product was sold to a daily customer =  $\text{Cost price} + 15\% \text{ of Cost price}$   
 $= 115\% \text{ of cost price} = 115\% \text{ of } 950 = ₹ 1092.5$   
 Daily customer has made whole of the payment immediately.  
 ∴ Amount eligible for cash discount = ₹ 1092.5  
 ∴ Cash discount =  $1\% \text{ of } 1092.5 = ₹ 10.925$   
 ∴ Amount actually received from customer =  $1092.5 - 10.925 = 1081.5$  approx  
 ∴ Loss incurred =  $1089 - 1081.5 = ₹ 7.5$   
 Rohan has incurred a loss of ₹ 7.5 by selling study tables to daily customer instead to retailer.
63. (e) As wholesaler made payment within a week, he had received 3% cash discount  
 So, selling price after adjusting discount  
 $= \text{MRP} - (3\% \text{ of MRP})$   
 ATQ,  
 $\Rightarrow 2910 = \text{MRP} - (3\% \text{ of MRP})$   
 $\Rightarrow 2910 = 97\% \text{ of MRP}$

- $\Rightarrow \text{MRP} = (2910 \times 100)/97$   
 $\Rightarrow \text{MRP} = ₹ 3000$   
 As we know,  
 $\Rightarrow \text{Cost price} = \text{MRP} - 5\% \text{ of MRP}$   
 $\Rightarrow \text{Cost price} = 95\% \text{ of } 3000$   
 $\Rightarrow \text{Cost price} = ₹ 2850$   
 $\therefore \text{Cost price of 100 boxes of pen for Rohan is ₹ 2850}$
64. (c) Let the number of appeared candidates from State B in 2015 is X.  
 Then the number of appeared candidates from State B in 2016 =  $X + X \times 80\% = 9X/5$   
 Now total number of appeared candidates from B in 2015 and 2016 together = 840  
 $X + 9X/5 = 840$   
 $\frac{5X+9X}{5} = 840$   
 $X = 300$   
 Now the number of appeared candidates in State B in year 2015 = 300  
 $\therefore \text{Appeared candidates in year 2016} = 540$   
 Now candidates qualified in 2016 = 55% of 540  
 $= (55/100) \times 540 = 297$
65. (d) Let, the total number of appeared candidates in the year 2017 in State A = X  
 Number of qualified candidates = 55% of X =  $11X/20$   
 It is given that number of qualified female candidates is 70.  
 Now, let number of male qualified candidate is K  
 $\therefore K/70 = 15/7$   
 $\Rightarrow K = 150$   
 Male qualified candidates = 150  
 Total qualified candidates =  $70 + 150 = 220$   
 Now,  $11X/20 = 220$   
 $X = 400$
66. (b) Number of appeared candidates in 2017 = 360  
 Qualified candidates in 2017 =  $360 \times 60\% = 216$   
 Appeared candidates in 2018 = 550  
 Qualified candidates in 2018 =  $550 \times 70\% = 385$   
 Number of appeared candidates in 2019 = 400  
 Let, the number of qualified candidates in 2019 = X  
 Now, Average of qualified candidates  
 $= (216 + 385 + X)/3 = 267$   
 $\Rightarrow X = 200$   
 Hence, the number of qualified candidates in State B in 2019 = 200
67. (a) Let, the number of appeared candidates from State B in year 2015 is = X  
 Now, the number of qualified candidates = X of 40% =  $2X/5$   
 Now, the number of appeared candidates from State A in year 2019 = 390  
 It is given that percentage of qualified candidates in both years are same hence, 40% (for A)  
 Now, the number of qualified candidates from State A = 40% of 390 = 156  
 $\therefore 156 - 2X/5 = 36$   
 $\Rightarrow X = 300$   
 Required ratio =  $300 : 156 = 25 : 13$
68. (a) Appeared candidates from State A in 2015 = 500  
 Qualified candidates among them = 70% of 500  
 $= (70/100) \times 500 = 350$   
 Appeared candidates from State A in year 2016 = 450  
 Qualified candidates among them = 50% of 450  
 $= (50/100) \times 450 = 225$   
 Difference between them =  $350 - 225 = 125$
69. (d) Let the current age of Ramesh, Suresh and Brajesh be a, b and c respectively.  
 $\Rightarrow a - 5 : b - 5 : c - 5 = 4 : 13 : 10$   
 Let  $a = 4x + 5$ ,  $b = 13x + 5$  and  $c = 10x + 5$   
 $\Rightarrow a + 10 : b + 10 : c + 10 = 3 : 6 : 5$   
 $\Rightarrow a + 10 : b + 10 = 3 : 6$   
 $\Rightarrow 4x + 5 + 10/13x + 5 + 10 = 3/6 = 1/2$   
 $\frac{4x+15}{13+15} = \frac{1}{2} \Rightarrow 13x+15=8x+30$   
 $\Rightarrow x = 3$   
 Thus the present ages of Ramesh, Suresh and Brajesh are 17, 44 and 35 respectively.  
 $\therefore \text{The ratio of their age after one year} = 18 : 45 : 36 = 2 : 5 : 4$
70. (a) Length of third side =  $324 - 96 - 132 = 96$  m  
 $s = \frac{324}{2} = 162$  m,  $a = 96$ ,  $b = 132$ ,  $c = 96$   
 Area of the triangular field  
 $= \sqrt{(s(s-a)(s-b)(s-c))}$   
 $= \sqrt{162(162-96)(162-96)(162-132)}$   
 $= \sqrt{162 \times 66 \times 66 \times 30}$   
 $= 66\sqrt{30 \times 162}$   
 $= 4601.1$   
 $\therefore \text{Cost of ploughing the field} = 4601.1 \times 15 = ₹ 69016.56$
71. (c) Let M, W and B be the number of days taken by a man, a woman, and a boy each working alone to complete the work.  
 4 men and 6 women together can complete a piece of work in 4 days.  
 $\Rightarrow 4/M + 6/W = 1/4 \quad \dots(1)$   
 2 man and 4 boys together complete the work in 8 days.  
 $\Rightarrow 2/M + 4/B = 1/8 \quad \dots(2)$   
 6 women and 4 boys together can complete the work in 6 days  
 $\Rightarrow 6/W + 4/B = 1/6 \quad \dots(3)$

On multiplying equation (2) by 2 and then subtracting from equation (1),

$$\begin{array}{r} 4/M + 8/B = \frac{1}{4} \\ 4/M + 6/W = \frac{1}{4} \\ \hline 8/B - 6/W = 0 \\ 3/W = 4/B \end{array} \quad \dots(4)$$

Putting value in equation (3)

$$\begin{array}{r} \frac{6}{W} + \frac{4}{B} = \frac{1}{6} \\ \frac{6}{W} + \frac{3}{W} = \frac{1}{6} \\ W = 54 \text{ days} \end{array}$$

$$\frac{6}{B} = \frac{1}{12}$$

$$\Rightarrow B = 72 \text{ days}$$

From equation 1,

$$\Rightarrow M = 144/5 \text{ days}$$

$\therefore$  4 men, 6 women and 8 boys together can complete

$$\text{the work in } \frac{4}{\frac{144}{5}} + \frac{6}{54} + \frac{8}{72} = \frac{36}{13} \text{ days.}$$

72. (e) Given, number of black Mobile = 20  
Number of red Mobile = 30  
Required probability = (black and red)

$$\begin{aligned} & \frac{{}^{20}C_1 \times {}^{30}C_1}{{}^{50}C_2} \\ &= \frac{20}{25} \times \frac{30}{49} = \frac{24}{49} \end{aligned}$$

73. (b) As the motorcycle and bus are moving in same direction

Relative speed of motorcycle w.r.t. bus

$$= 90 - 72 = 18 \text{ km/hr}$$

$$= 18 \times \frac{5}{18} = 5 \text{ m/sec}$$

$\therefore$  Time in which motorcycle will overtake the bus

$$= \frac{480}{5} = 96 \text{ sec} = 1 \text{ min } 36 \text{ sec.}$$

74. (e) Since the compound interest obtained for 2nd year is ₹ 1210

That means it is the simple interest on the principle of 2nd year which is (Main principal + Interest on 1st year)

$$\Rightarrow 1210 = [\text{Principal of 2nd year}] \times 10/100$$

$$\Rightarrow [\text{Principal of 2nd year}] = 12100$$

We know that,

[Principal of 2nd year] = Main Principal + Interest of 1st year

Suppose the main principal is P

$$\Rightarrow P + [P \times 10 \times 1]/100 = 12100$$

$$\Rightarrow 1.1 P = 12100$$

$$\Rightarrow P = 11000$$

$\therefore$  Principal amount = ₹ 11000

75. (a) Ratio of shares of A and B = 5120 : 4000 = 32 : 25

Since A received ₹ 320, B share must be ₹ 250

$$\text{Share of C} = 1105 - 320 - 250 = ₹ 535$$

A's Capital/A's share = C's Capital/C's share

$\therefore$  Capital amount invested by C

$$= \frac{5120 \times 535}{320} = ₹ 8560$$

76. (c) The ratio of present ages of Piyush and Ayush is 9 : 8

Let their ages be 9x and 8x respectively.

After 12 years, the ratio between their ages becomes 21 : 19.

$$\Rightarrow (9x + 12) / (8x + 12) = 21/19$$

$$\Rightarrow x = 8$$

$\Rightarrow$  Present age of Ayush = 64 years

Rohit is 8 years older than Ayush

$\therefore$  Present age of Rohit = (64 + 8) years = 72 years.

77. (e) The ratio of impurities cost = 3 : 7

Let, 3X be the initial impurities cost

$\therefore$  Cost of the product = 3 × 3X = 3600

$$\Rightarrow X = 400$$

impurities cost = 3 × 400 : 7 × 400 = 1200 and 2800

If the cost of the impurities is 1200, then the cost of Pure material become 3600 - 1200 = ₹ 2400

$$\Rightarrow 4 \times 600$$

$\therefore$  The pure material cost is

$$= 4 \times 600 \text{ and } 9 \times 600$$

$$= 2400 : 5400$$

$\therefore$  Cost of product = 5400 + 2800 = 8200

78. (a) Let quantity of first mixture = x

So quantity of second mixture = 2x

$$\text{Milk from first} = \frac{60}{100} \times x = 0.6x$$

$$\text{Milk from second} = \frac{55}{100} \times 2x = 1.1x$$

So milk in resultant mixture is 0.6x + 1.1x = 1.7x

Total mixture in third is x + 2x = 3x

$$\therefore \text{Percentage of milk} = \frac{1.7x}{3x} \times 100 = 56.67\%$$

79. (b) Speed of each boat in still water = 30 km/hr

Suppose the speed of stream is v km/hr

$\Rightarrow$  Speed of boat that goes upstream

$$= (30 - V) \text{ km/hr}$$

And, Speed of boat that goes downstream

$$= (30 + V) \text{ km/hr}$$

Suppose the boats meet after T hours

We know, Distance = Speed  $\times$  Time

$\Rightarrow$  Distance covered by boat moving upstream

$$= (30 - V) \text{ km/hr} \times T \text{ hr} = (30 - V) T \text{ km}$$

$\Rightarrow$  Distance covered by boat moving downstream

$$= (30 + V) \text{ km/hr} \times T \text{ hr}$$

$$= (30 + V) T \text{ km}$$

Now, total distance covered by boats should be equal to 75 km.

$$\Rightarrow (30 - V) T + (30 + V) T = 75$$

$$\Rightarrow 30T - VT + 30T + VT = 75$$

$$\Rightarrow 60T = 75$$

$$\Rightarrow T = 1.25 \text{ hours} = 1 \text{ hour} + (0.25 \times 60 \text{ minutes})$$

$$= 1 \text{ hour and 15 minutes}$$

$\therefore$  Time taken by the boats to meet = 1 hour and 15 minutes.

80. (a) Diameter of the circle = 30 cm

Radius of the circle = 15 cm

$$\therefore \text{Side of the square} = \frac{30+15}{2} = 22.5 \text{ cm.}$$

$$\text{Area of the square} = 22.5 \times 22.5 = 506.25 \text{ cm}^2$$

$$\text{Perimeter of the square} = 4 \times 22.5 = 90 \text{ cm}$$

$\therefore$  The difference between numerical value of the area and the perimeter of the square is =  $506.25 - 90 = 416.25$

81. (d) An arithmetic logic unit is a combinational digital electronic circuit that performs arithmetic and bitwise operations on integer binary numbers
82. (b) Scroll wheel button is called as middle button used as third mouse button by pressing on it.
83. (c) A slide show is a presentation of a series of still images on a projection screen or electronic display device, typically in a prearranged sequence.
84. (b) Volatile memory is a computer storage that simply upholds its data while the machine is powered
85. (a) A utility is a small program that provides an addition to the capabilities provided by the operating system.
86. (d) A central processing unit (CPU) is the electronic circuitry within a computer that carries out the instructions of a computer program by performing the basic arithmetic, logical, control and input/output (I/O) operations specified by the instructions.
87. (b) An application program is a computer program designed to perform a group of coordinated functions, tasks, or activities for the benefit of the user.
88. (d) An HTTP cookie (also called web cookie, Internet cookie, browser cookie, or simply cookie) is a small piece of data sent from a website and stored on the user's computer by the user's web browser while the user is browsing.
89. (d) Email spam, also known as junk email, is a type of electronic spam where unsolicited messages are sent by email.

90. (e) A track is any of the concentric circles on the magnetic coating on a platter or floppy disk over which one magnetic head passes while it is stationary, but the platter or floppy is spinning. Tracks are divided into a number of segments.
91. (d) All other except Keyboard are applications available with MS Office Suite. But keyboard is a device.
92. (b) An uninterruptible power supply, also uninterruptible power source, UPS or battery/flywheel backup, is an electrical apparatus that provides emergency power to a load when the input power source or mains power fails.
93. (b) Webmail is any email client implemented as a web application running on a web server. Examples of webmail software are Round cube and Squirrel Mail. Examples of webmail providers are Gmail, Outlook.com and Yahoo etc.
94. (b)
95. (a) Here, Except PLB, all are valid units of memory, KB-Kilo Byte, YB- Yotta Byte, PB-Peta Byte.
96. (a) It is a machine independent language. It enables user to write programs in a language which resemble English words and familiar mathematical symbols.
97. (c) E-mail service providers allow you to create an e-mail account. Hotmail, Gmail and Yahoo Mail allow you to create a free e-mail account, but Bing Bing is a web search engine.
98. (d) Bcc stands for blind carbon copy which is similar to that of Cc except that the Email address of the recipients specified in this field do not appear in the received message header and the recipients in the To or Cc fields will not know that a copy sent to these address.
99. (a) Output Devices lets users to view or print data, for example: Monitor, Printer.
100. (e) Ctrl + P is used to print a page or document.
101. (a) In an MS Word document, while editing or typing content, the Ctrl + Right Arrow key combination is used to move the cursor one single word right (i.e. it sends the cursor to the starting point of the next word in the right direction).
102. (c) ".pptx" is the default extension of Power Point 2013. It is a PowerPoint presentation, which is an XML-enabled file format, by default in PowerPoint 2016, 2013. Do not confuse yourself with ".pptx" and ".ppt". A presentation that you can open in PowerPoint 97 to Office PowerPoint 2003 has file extension ".ppt".
103. (a) Mail Merge is a useful tool that allows you to create a huge number of identical documents by merging the main document with the data source. The main document holds the information that is to be repeated in all the documents and the data source holds the information that is different for every document.
104. (b)
105. (a) Analog computers store data in a continuous form of physical quantities and perform calculations with the help of measures.

106. (d) A stylus is an instrument for writing and, in computers, an input device used to write text or draw lines on a surface as input to a computer.
107. (c)
108. (b) A backbone is the part of the computer network infrastructure that interconnects different networks and provides a path for exchange of data between these different networks. A backbone may interconnect different local area networks in offices, campuses or buildings.
109. (c) You can organize your bookmark into folders by topic or task etc.
110. (c)
111. (c) Computer uses binary number system.
112. (c)
113. (a) Resolution is the number of pixels (individual points of color) contained on a display monitor, expressed in terms of the number of pixels on the horizontal axis and the number on the vertical axis. The sharpness of the image on a display depends on the resolution and the size of the monitor.
114. (a) Analog computers store data in a continuous form of physical quantities and perform calculations with the help of measures.
115. (d) A stylus is an instrument for writing and, in computers, an input device used to write text or draw lines on a surface as input to a computer.
116. (c)
117. (b) A backbone is the part of the computer network infrastructure that interconnects different networks and provides a path for exchange of data between these different networks. A backbone may interconnect different local area networks in offices, campuses or buildings.
118. (c) Computer uses binary number system.
119. (c)
120. (a)
121. (b) Prakash Javadekar is an Indian politician. He is a member of the Rajya Sabha and currently serving as the Minister of Information and Broadcasting in central cabinet.
122. (c) Novak djokovic won the wimbeldon 2019 men's single tournament. He defeated Roger Federer successfully.
123. (a) A core investment company is a non-banking financial company (NBFC) which carries on the business of acquisition of shares and securities The Reserve Bank of India had constituted a Working Group (WG) to Review Regulatory and Supervisory Framework for Core Investment Companies (CICs), on July 03, 2019.
124. (d) The RBI appointed U.K. Sinha-led committee, set up to study the problems faced by MSMEs. The committee submitted its recommendations on June 2019. Around 63 million MSMEs in India contribute significantly to the country's economic growth.
125. (b) The Appointments Committee of the Cabinet (ACC) has appointed senior bureaucrat Ajay Tyagi as the chairman of the Securities and Exchange Board of India (SEBI). He will have tenure of 5 years or till the age of 65 years.
126. (b) Operation Sunrise is a coordinated operation by armies of India and Myanmar. Myanmar is one of the strategic neighbour of India and shares a 1,640-km border with a number of north-eastern states.
127. (d) Ravish Kumar is an Indian journalist, author, and media personality. He recently awarded by Ramon Magsaysay Award 2019.
128. (a) 'Yoga for Climate Action' is the theme of Yoga day 2019. To mark the importance and significance of yoga in one's life, June 21 is observed as International Day of Yoga every year since 2015.
129. (a) Indian president Ram Nath Kovind honored with Guinea's highest award in 2019.
130. (d) An informal meeting of the BRICS nations was conducted on the sidelines of the G20 Summit in Osaka on June 28 2019.
131. (a) Information technology firm Tech Mahindra has signed a multi-year contract with Airbus for cabin and cargo design engineering. "Tech Mahindra aims to capitalized on the specialized skills and competencies in growing cabin engineering business over few years.
132. (b) An outbreak of acute encephalitis syndrome occurred in Muzaffarpur and the adjoining districts in Bihar state of India.
133. (c) The Kaleshwaram Lift Irrigation Project (KLIP) is a multi-purpose irrigation project on the Godavari River in Kaleshwaram, Telangana. Currently the world's largest multi-stage lift irrigation project.
134. (a) GS Lakshmi will become the first woman referee to officiate in an International Cricket Council (ICC) . Lakshmi is an Indian cricket match referee and a former domestic cricket player and coach.
135. (c) According to NITI AAYOG Health Index Report 2019, Among the Larger States, Kerala, Andhra Pradesh & Maharashtra ranked on top in terms of overall performance.
136. (b) The Asian Development Bank is a regional development bank established on 19 December 1966, which is headquartered in the Ortigas Center located in the city of Mandaluyong, Metro Manila, Philippines.
137. (c) The Atlantic Council, is an American Atlanticist think tank, was Founded in 1961. it provides a forum for international political, business, and intellectual leaders. It manages ten regional centers and functional programs related to international security and global economic prosperity. It is headquartered in Washington, D.C.
138. (a) MCLR (Marginal Cost of funds based Lending Rate) replaced the earlier base rate system to determine

- the lending rates for commercial banks. RBI implemented MCLR on 1 April 2016 to determine rates of interests for loans. It is an internal reference rate for banks to determine the interest they can levy on loans. MCLR is calculated based on the loan tenor, i.e., the amount of time a borrower has to repay the loan.
139. (a) Tadoba National Park is located in Chandrapur district of Maharashtra state in India. It is a part of Tadoba Andhari Tiger Reserve. It is Maharashtra's oldest and largest national park. The park was declared a Project Tiger reserve in 1995.
140. (c) Ministry of Rural Development has two departments namely Department of Rural Development and Department of Land Resource. Its focus is on health, education, drinking water, housing and roads.
141. (d) President of India Ram Nath Kovind announced Padma Awards, which is the highest civilian Awards in the country. The Padma Awards are conferred under 3 categorized viz- Padma Vibhushan, Padma Bhushan and Padma Shri. This year president approved the conferment of Padma Vibhushan to 4 Persons; Ms. Teejan Bai (Art-Vocals-Folk), Shri Ismail Omar Guelleh (Public Affairs), Shri Anilkumar Manibhai Naik (Trade & Industry-Infrastructure), Shri Balwant Moreshwar Purandare (Art-Acting-Theatre).
142. (a) Hemis Festival in Ladakh is celebrated annually on the 10th day of the Tse-Chu, Lunar month of the Tibetan Calendar. The 2-day fiesta marks the birth anniversary of Guru Padmasambhava. The colorful festival showcases the beautiful handicrafts of the area.
143. (c) Apollo 11 launched from Cape Kennedy on July 16, 1969. Apollo 11 was the first manned mission to land on the Moon. The first steps by humans on another planetary body were taken by Neil Armstrong and Buzz Aldrin on July 20, 1969.
144. (b) Dragonfly is a planned spacecraft and mission that will send a mobile robotic rotorcraft lander to Titan, the largest moon of Saturn, in order to study prebiotic chemistry and extraterrestrial habitability at various locations where it will perform vertical-takeoffs and landings. Titan, is an icy world whose surface is completely obscured by a golden hazy atmosphere. Titan is the second largest moon in our solar system.
145. (c) The 2019 UEFA Champions League Final was the 64th season of Europe's premier club football tournament organised by UEFA. It was played at the Wanda Metropolitano in Madrid, Spain on 1 June 2019, between English sides Tottenham Hotspur and Liverpool. Liverpool won the final 2-0.
146. (b) "Relentless" is the autobiography of Former Finance Minister Yashwant Sinha. The book titled Relentless promises to be a tell-all tale of the bureaucrat-turned-politician who made an incredible journey from modest beginnings to the highest corridors of power.
147. (d) Since 1980, the United Nations World Tourism Organization has celebrated World Tourism Day as international observances on September 27. The World Tourism Organization (UNWTO) is the United Nations agency responsible for the promotion of responsible, sustainable and universally accessible tourism.
148. (a) Master blaster Sachin Tendulkar has been inducted into the International Cricket Council's (ICC) Hall of Fame alongside South African pace legend Allan Donald. Joining Tendulkar and Donald in the Hall of Fame was two-time World Cup-winning Australian woman cricketer Cathryn Fitzpatrick.
149. (c) IIT Bombay has moved significantly up from 162nd rank last year to 152nd rank this year in the Quacquarelli Symonds (QS) World University Rankings. IIT Bombay ranks 1st in India, with an overall score of 49.4 out of 100. As per the report, 23 Indian institutes featured in the 16th edition of the QS World University Ranking.
150. (b) Fugdi is a Maharashtra and Goan folk dance performed by the women in the Konkan region during Hindu religious festivals like Ganesh Chaturthi and Vrata or towards the end of other dances like Dhalo.
151. (c) The Motor Vehicles (Amendment) Bill, 2019 was introduced in Lok Sabha on July 15, 2019 by the Minister for Road Transport and Highways, Mr. Nitin Gadkari. The Bill increases penalties for several offences under the Act. For example, the maximum penalty for driving under the influence of alcohol or drugs has been increased from Rs 2,000 to Rs 10,000.
152. (c) UGC has approved a new initiative known as STRIDE (Scheme for Trans-disciplinary Research for India's Developing Economy) on 1st July 2019. STRIDE scheme will strengthen research culture and innovation in colleges and Universities and help students and faculty to contribute towards India's developing economy with help of collaborative research'.
153. (a) TRC Turf Ground is a football ground in Srinagar, India. The stadium was made at the cost of 4.5 crore (45 million) rupees and unveiled in September 2014 by then chief minister, Omar Abdullah
154. (b) The production of India's first semi high-speed train has come to a grinding halt at the Integral Coach Factory (ICF) in Chennai. Vande Bharat Express, also known as Train 18, is an Indian semi-high speed intercity electric multiple unit. The train was launched on 15 February 2019, by which date a second unit will have been produced and readied for service. The service was named 'Vande Bharat Express' on 27 January 2019.
155. (b) Careem to become a wholly-owned subsidiary of Uber, operating as an independent company under the Careem brand and led by Careem founders.
156. (b) India has opened its first specialised hydrotherapy treatment center (water clinic) for elephants suffering

- from arthritis, joint pain and foot ailments on the banks of the Yamuna in Mathura. It is opened near the Wildlife SOS' Elephant Conservation and Care Centre (ECCC), which currently houses 20 rescued elephants.
157. (b) Mumbai girl Aarohi Pandit created history by becoming the first woman pilot to cross both Atlantic Ocean and Pacific Ocean solo in a Light Sports Aircraft. She completed the feat when she landed at Iqaluit Airport in Canada on 13 May, having flown there from Wick in the UK.
158. (a) India's rank has slipped five places to 141 among 163 countries on the Global Peace Index 2019. Australian think tank Institute for Economics & Peace ranks countries according to their level of peacefulness based on three thematic domains.
159. (d) Makers of chips, soups, biscuits, juices and other packaged foods will soon have to display red colour coding on the front of packets of products that have high levels of fat, sugar or salt.
160. (c) The 10th Mekong Ganga Cooperation (MGC) Ministerial Meeting was held in Bangkok, Thailand. During this meeting, new MGC Plan of Action 2019-2022 was adopted. New MGC Plan of Action 2019-2022 envisages project-based cooperation among member countries in various areas including tourism and culture, education, public health and traditional medicine, agriculture and allied sectors, transport and communication, MSMEs and water resources management.
161. (a) All the given options are correct
162. (b) II and III only
163. (d) II and III only
164. (b) Polygamy is practiced in Bhutan
165. (a) document
166. (d) periphery
167. (a) Empty
168. (c) feminist
169. (e) No change
170. (c) 'Was' and 'science' are to be replaced by each other.
171. (a) 'Essentially' and 'bread' are to be replaced by each other.
172. (c) Musician and part should be replaced with each other
173. (b) 'Crude' and 'treasure' are to be replaced by each other
174. (b) Depend  
We.....**depend**...on machines for every field of our life.
175. (a) Artificial Intelligence is a branch of computer science ....**that**..... works on to create
176. (b) Computer systems .....**capable**..... to react like a human being.
177. (b) Computers are millions of times .....**faster**..... than they were fifty years ago.
178. (c) Still, greater computational speed does make some so-called Artificial Intelligent systems .....**seem**..... smarter.
179. (d) Artificial intelligence (AI) has a great role ....**in**..... the field of robotics.
180. (c) Artificial Intelligence ...**provides**..... computers with the understanding they require to handle information being encoded by humans.
181. (b) Natural language processing, a subfield of Computer vision instructs computers on how to .....**comprehend**..... images and scenes.
182. (a) This application is .....**valued**..... in the fields of medicine, security, surveillance, military operations, even movie-making.
183. (c) Since the beginnings of civilization man has had a fascination for a human-like creation that .....**would assist**..... him.
184. (a) Only (I) is correct. 'To' will be followed by first form of verb
185. (d) Both (I) and (III) are correct. Both 'given' and 'considering' here mean taking into account.
186. (e) No correction required
187. (a) Only (I) is correct. "is considered a " is more correct. When two things are compared to be equal, "as" is indeed not necessary.
188. (d) Only (III) is correct. 'Its' shows possession and 'it's' shows 'it is'.
189. (b) Only (II) is correct. As the sentence is in past tense, 'caused' will be used.
190. (c)
- Sol. (191-195):**  
The correct paragraph/arrangement of the given sentences is as follows -  
Delhi Chief Minister Arvind Kejriwal said on Tuesday that political parties had underestimated the Aam Aadmi Party before it registered a record win in the national capital and now they were doing the same in Haryana, where the "party's graph was on the rise". "Many parties make fun and tell us that we have no base in Haryana. They did the same in Delhi when they used to say that no one would vote for us. But people of Delhi had made up their mind and voted for us with overwhelming majority," he said addressing a public gathering here. Stating that the AAP can provide a viable alternative to parties like the BJP, the Congress and the INLD, Mr. Kejriwal said his party was growing in Haryana.  
Therefore, the correct sequence would be, DBAEC. Hence the correct answer here is option (c)
191. (a) 192. (d) 193. (e) 194. (b) 195. (a)
- Allusion:** an expression designed to call something to mind without mentioning it explicitly; an indirect or passing reference.
196. (b) **Tout:** to brag or flaunt
197. (c) **Wrest:** forcibly pull (something) from a person's grasp.
198. (d) **Insinuate:** suggest or hint (something bad) in an indirect and unpleasant way.

199. (e) **Tamper:** interfere with (something) in order to cause damage or make unauthorized alterations.
200. (d) Pry: inquire too closely into a person's private affairs.
201. (d)
202. (c)
203. (d)
204. (c)
205. (c)
206. (d)
207. (b)
208. (a)
209. (d)
210. (c)
211. (b) पढ़ता क्या था, छठीं पास करने के बाद सातवीं में 'आया' ही था। जुलाई का महीना था। गरमी की
212. (d) छुट्टियों के बाद 'स्कूल' खुल गया था। मेरे
213. (c) लिए नयी 'कक्षा' की किताबें आ गयी थीं। नयी छपी हुई किताबों की गंध जो पता नहीं, नये कागज की होती थी या उस पर की
214. (a) गयी 'छपाई' में इस्तेमाल हुई स्याही की,
215. (d) या जिल्दसाजी में 'लगी' चीजों की, या बरसात के मौसम में कागज में आयी हल्की
216. (e) सी 'सीलन' की मुझे बहुत अच्छी लगती थी।
217. (c) ज्यों ही मेरे लिए नयी 'किताबें' आतीं, मैं सबसे पहले अपनी हिंदी की पाठ्य-पुस्तक पढ़ डालता। सो एक दिन स्कूल से लौटकर
218. (a) मैं अपनी हिंदी की पाठ्य-पुस्तक 'पढ़' रहा था। जिसमें एक पाठ था 'बड़े भाई साहब'। पुस्तक में अवश्य ही लिखा रहा होगा कि यह एक
219. (b) 'कहानी' है और इसके लेखक हैं प्रेमचंद। लेकिन इस सबसे मुझे क्या। मैं तो बड़े भाई
220. (e) साहब 'शीर्षक' देखकर ही उसे पढ़ने लगा।  
"एक बार ----- चल दिया।"
221. (c) 'मन की वृत्ति' के लिए एक शब्द 'मनोवृत्ति' है।
222. (a) 'तिक्त' शब्द का विलोम 'मधुर' है।
223. (d) 'नैसर्गिक' शब्द का विलोम 'कृत्रिम' है।
224. (b) 'गमन' शब्द का विलोम 'आगमन' है।
225. (a) 'हर्ष' शब्द का विलोम 'विषाद' है।
226. (c) 'टांग अड़ाना' मुहावरे का अर्थ 'बाधा डालना' है।
227. (d) 'जहाँ लोगों का मिलन हो' के लिए एक शब्द 'सम्मेलन' है।
228. (b) 'जिसके पार देखा जा सके' के लिए एक शब्द 'पारदर्शक' है।
229. (a) 'जो सब-कुछ जानता हो' के लिए एक शब्द 'सर्वज्ञ' है।
230. (d) 'नियति' का समानार्थी शब्द 'भाग्य' है, 'चरित्र' का अर्थ 'आचरण' एवं 'स्वभाव' का अर्थ 'प्रकृति' है।
231. (c) लास्य वह नृत्य कहलाता है, जिसमें कोमल अंग-भंगियों के द्वारा मधुर भावों का प्रदर्शन होता है।
232. (b) भगवद्गीता के माहात्म्य यानी गौरव से हम सभी परिचित है।
233. (b) गति का नाम जीवन है और स्थिरता का मृत्यु।
234. (d) आसन का अर्थ है, बैठना।
235. (c) साधु और संन्यासियों द्वारा भिक्षा माँग कर खाना योग परम्परा का एक हिस्सा है।
236. (c) यहाँ 'घट जाने की' के स्थान पर 'घटित होने की' का प्रयोग उचित है।
237. (e) यह वाक्य त्रुटिरहित है।
238. (d) यहाँ 'समझाया जा सकता है' के स्थान पर 'समझाई जा सकती है' का प्रयोग उचित है।
239. (c) यहाँ 'वह इतनी रोती है' के स्थान पर 'वह इतना रोती है' का प्रयोग उचित है।
240. (b) यहाँ 'मुझसे बात नहीं करना था' के स्थान पर 'मुझसे बात नहीं करनी थी' का प्रयोग उचित है।