

Assistant Prelims Exam 2019 – Held on 31st July 2019

Reasoning Ability

Direction: Study the below given information and answer them carefully.

G is 19m to the east of H. G is 6m to the south of J. K is 25m to the east of J. K is 12m to the north of L. M is 44m to the west of L.

1). How far and in which direction is M with respect to H?

- a) 6m, South
- b) 19m, North
- c) 12m, East
- d) 8m, East
- e) 25m, West

2). If Z is 6m north of L then which among the following points lie in the straight line?

- a) HZM
- b) ZCG
- c) ZKM
- d) HGZ
- e) JHZ

3). What is the position of G with respect to L?

- a) South
- b) South East
- c) North West
- d) West
- e) None

4). The position of how many digits will remain unchanged if each of the digits in the number “8619354” is arranged in ascending order from left to right?

- a) One
- b) Two

- c) Three
- d) Four
- e) None

5). How many such pairs of letters are there in the word "EMPOWER", each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English

Alphabetical series?

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

6). If in the word "CHLORINE", all the vowels are first arranged in English alphabetical order and then all the consonants are arranged in English alphabetical order and after that each letter is changed to the next letter as per the English Alphabetical order, then which letter will be fourth from the left end?

- a) J
- b) P
- c) D
- d) I
- e) M

Syllogism Questions:

7).

Statements:

No test is paper.

Only a few papers are boat.

Only a few boats are notes.

Conclusions:

I. At least some papers are notes

II. All boats can never be test.

A. Only conclusion I is true

B. Only conclusion II is true

C. Either conclusion I or conclusion II is true

D. Neither conclusion I nor conclusion II is true

E. Both Conclusion I and II are true.

8).

Statements:

All Vision are looks

Only a few looks are eye.

Only a few eyes are fans.

Conclusions:

- I. No vision is eye
- II. All looks can never be fans.
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both Conclusion I and II are true.

9).

Statements:

Only a few bins are nets
Only a few nets are tips
All tips are pans

Conclusions:

- I. All nets can never be pans
- II. At least some bins are tips.
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both Conclusion I and II are true.

10).

Statements:

Only a few modes are types
All types are prints
No print is image

Conclusions:

- I. At least some modes are prints.
- II. No type is image
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both Conclusion I and II are true.

Seating Arrangement Questions:

Direction (11-15): Study the information given and answer them carefully.

8 people A, B, C, D, J, K, L and M are sitting around a square table such that four people sitting at the corners of the table and four people are sitting at the middle of the table. The people sitting at the corner faces towards the centre of the table and the people sitting at the middle of the table faces opposite towards the centre of the table. K is sitting at the one of the middle sides of the table. Three people sit between K and A. J and A are immediate neighbors. Two people sit between J and D. L sits third to the left of D. Three people sit between C and L. Only one person is sitting between C and M

11). Four of the following five are alike in a certain way, which one of the following does not belong to that group?

- a) B
- b) M
- c) L
- d) J
- e) C

12). Which of the following statements is true regarding B ?

- a) Three people sit between B and M
- b) B sits at the corner of the table
- c) J and L are neighbors of B
- d) B sits second to the left of A
- e) None of these

13). What is the position of C with respect to A?

- a) Immediate right
- b) Immediate left
- c) Second to the left
- d) Third to the right
- e) None of these

14). How Many People sits between C and A when counted from the right of A?

- a) One
- b) Three
- c) None
- d) Four
- e) Six

15). Who is sitting second to the left of J?

- a) C
- b) K

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- c) L
- d) M
- e) D

Inequality Questions:

16).

Statements:

$$N \leq A \leq M = E; M \leq O = S$$

Conclusions:

I. $S > N$

II. $N = S$

- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both Conclusion I and II are true.

17).

Statements:

$$N \leq A \leq M = E; M \leq O = S$$

Conclusions:

I. $O \geq E$

II. $A \leq S$

- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both Conclusion I and II are true.

18).

Statements:

$$J \leq A = S \leq M = I > N$$

Conclusions:

I. $N < A$

II. $I \geq J$

- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both Conclusion I and II are true.

Puzzles:

Direction (19 to 23): Read the following information carefully and answer the questions.

8 people are living in an eight-storey building, but not necessarily in the same order. The ground floor is numbered 1; the floor above it is numbered 2; and so on, until the topmost floor is numbered 8.

More than five people lives above V. Two people lives between V and P. Three people lives between P and T. Only one person live between T and Q. The number of people living below Q is same as the number of people living above R. K lives on an even numbered floor immediately above S. W lives on one of the floors below S.

19). Four of the following five are a like in a certain way, which one of the following does not belong to the group?

- a) RS
- b) PR
- c) SW
- d) VT
- e) QV

20). Who among the following lives immediately above W?

- a) S
- b) R
- c) P
- d) V
- e) Q

21). On which of the following floor does R live?

- a) 4th
- b) 7th
- c) 5th
- d) 3rd
- e) 6th

22). How many people are sitting between V and R?

- a) One
- b) None
- c) Four
- d) Five
- e) Three

23). Which of the following statements is true regarding W?

- a) Three people sit below W
- b) W lives on an odd numbered floor

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- c) V lives immediately above W
- d) The number of persons above W is same as the persons below S
- e) R lives immediately below W

Numerical Aptitude

Number Series:

1). 3, 4, 6, 18, 72, 360, 2160

Ans: 4

2). 18, 19, 23, 32, 49, 73, 109

Ans: 49

3). 96, 48, 24, 12, 9, 3, 1.5

Ans: 9

4). 50, 80, 55, 75, 60, 85, 65

Ans: 85

5). 50, 45, 39, 32, 24, 16.5

Ans: 16.5

Data Interpretation:

Direction (6 to 10): Data is given below for sale of a number of cakes of 4 different bakeries on 4 different days, via Thursday, Friday, Saturday and Sunday.

	P	Q	R	S
Thursday	25	23	32	38
Friday	15	19	34	18
Saturday	18	24	30	24
Sunday	12	30	32	20

6). What is the ratio of sales of Q and P on Saturday & Sunday together?

- a) 27:10
- b) 12:5
- c) 3:4

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d) 12:7

e) 9:5

7). If 40% of the sale of Q & R on Thursday was from chocolate cakes. Find the number of same chocolate cakes sold.

a) 28

b) 22

c) 20

d) 30

e) 24

8). Find the difference between the number of cakes sold by R & S on Sunday & By P on Thursday.

a) 26

b) 27

c) 28

d) 2

e) 23

9). Sales on Q on Friday is how much % more/ less than the sale of S on Thursday?

a) 5% more

b) 50% less

c) 25% less

d) 100% less

e) 25% more

10). What is the daily average sale of R & S for all days together?

a) 54

b) 56

c) 55

d) 57

e) 53

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Simplification Questions Asked in EPFO Assistant Prelims Exam 2019 (Slot-1):

1). $60\% \text{ of } 80 - 20^2 = ? \div 2^2$

Ans: 320

2). $22 \times 5 - ?^2 = \sqrt{841}$

Ans: 9

3). $3 \times 55 \div 0.05 = ? \times 300$

Ans: 11

4). $8 \sqrt{5} \times 12 \div 24 \sqrt{5} = ?$

Ans: 4

5). $(6 \times 25) ? + (2/3) = 34$

Ans: 4.5

6). $1.5 \times ? - 16 = 50 \times 0.04$

Ans: 12

7). $\sqrt{?} \times 14 = 6^2 - 29$

Ans: 3.5

8). $(21 \div 0.05 + 34) \times ? = 2270$

Ans: 5

9). $[\sqrt{9/64} + (1/2)] \times 240 = ?$

Ans: 210

10). $\sqrt{5.76} - 1.4 = 5 ? \div 25$

Ans: 2

Application Sums:

11). Mixture of milk and water 70L. Milk is 56L. 15L is take out. 4 L each of pure water add milk is added to the then. Ratio of milk and water is?

Ans: 16 : 5

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12). B is 4 years elder to A. C is 8 years younger to A. Sum of present ages of B and C is 36. What is the ratio of A's age 2 years ago and B's Present age.

Ans: 3 : 4

13). 4 bottles and 3 plates are cost Rs. 153, cost of one plate is 50% more than the cost of one bottle. What is the difference between their costs?

Ans: 9

14). An article is marked twice its cost price. If the article is sold at Rs. 1600 and the discount given is Rs. 800. Then what is the profit (in Rs.)?

Ans: Rs. 400

15). If the speed of boat in still water is 15km/h more than speed of stream. If the boat travels a distance of 37.8 km downstream in 1 hr 48mins. Then what is the speed of the boat in still water?

Ans: 18km/h

16). Perimeter of 2 squares is 128m and 184m. What is the perimeter of the square whose side is equal to the difference of sides of two squares?

Ans: 56m

17). Pinku left for a hill station which is at a distance of 168km at 11 am. He reached at 1:48pm. Had he travelled at a speed 12km/h more than the original speed, then at what time he would have reached (left at same time)?

Ans: 1:20 pm

18). Pushpa invested 15% of her monthly salary in mutual funds. Out of the remaining, she spent 20% on buying groceries. Remaining 27200 Rs. She gave to her mother. How much she spend on groceries.

Ans: 6800

19). A invested x Rs. And B invested (x+800) Rs. in a business. After 8 months, B left. Profit distributed among A and B is 4:3 respectively. Find the value of x?

Ans: 6400

20). Two inlet pipes A and B fill a tank in 48 hours and 72 hours respectively. Then in how much time together, they will fill the $\frac{2}{9}$ th of the tank?

Ans: 6.4 hours