

IBPS Clerk Prelims 19th December 2021 Memory Based Paper (Free PDF)



1. The speed of a train, which crosses a pole in 15 seconds, is 90 km/hr. What will be the length of a platform which the train will cross in 30 seconds with the same speed?

- A. 250 meters
- B. 375 meters
- C. 425 meters
- D. 600 meters
- E. 750 meters

2. Simple interest on Rs. 8750 at the rate of 20% per annum for 3 years is 2.5 times of the simple interest on Rs. x at the rate of 10% per annum for 2 years, then what is the value of x ?

- A. 5250
- B. 7875
- C. 10500
- D. 12500
- E. 15000

3. Ratio of present ages of father and son is 7:3. After 4 years the age of father will be 2.5 times of the present age of son. Find the sum of ages of father and son after 2 years.

- A. 42 years
- B. 56 years
- C. 64 years
- D. 72 years
- E. 84 years

4. A can do a piece of work in 10 hours and B can do the same work in 15 hours. A and B started the work together and after 3 hours B left the work. After 1 hour A also left the work, then in how many hours will B alone complete the remaining work?

- A. 4 hours
- B. 5 hours
- C. 6 hours
- D. 7.5 hours
- E. 9 hours

5. A man gives 40% of his salary to his daughter. He gives two third of the remaining salary to his son. If he gives the remaining salary to his wife, which is Rs. 10000, then what is the total amount he gave to his son and daughter?

- A. Rs. 50,000
- B. Rs. 56,000
- C. Rs. 60,000
- D. Rs. 40,000
- E. Rs. 20,000

6. The perimeter of a square is 52 cm less than the circumference of a circle whose radius is 1 cm more than the side of the square, then what is the area of the circle?

- A. 154 cm^2
- B. 605 cm^2
- C. 2772 cm^2
- D. 2079 cm^2
- E. 1386 cm^2



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7. Perimeter of a rectangle is 72 cm and it is equal to the circumference of a semi-circle, whose radius is equal to the length of the rectangle. What is the breadth of the rectangle?

- A. 14 cm
- B. 21 cm
- C. 22 cm
- D. 28 cm
- E. 35 cm

Direction: In the following question two equations are given in variables x and y . You have to solve these equations and determine the relation between x and y .

8.

I. $2x^2 - 23x + 38 = 0$

II. $y^2 - 17y + 66 = 0$

- A. $x > y$
- B. $x \geq y$
- C. $x < y$
- D. $x \leq y$
- E. $x = y$ or no relationship can be established between x and y .

Direction: Study the following data carefully and answer the questions accordingly.

A, B, C, D, E, F and G are seven people living in a seven storeyed building. D lives on an odd numbered floor immediately below A. Three people live between A and G. B lives on a floor above A and C. Two people live between B and C. E lives on a floor above C

9. If arranged alphabetically from top to bottom, which of the people's floors remain unchanged?

- A. One
- B. Two
- C. Three
- D. No one
- E. None of these

10. How many people live below D as above B?

- A. None
- B. One
- C. Two
- D. Three
- E. Four

11. What is the relation of P with respect to Y?

- A. Mother
- B. Grandmother
- C. Aunt
- D. Sister
- E. None of these

Direction: Study the following data carefully and answer the questions accordingly.

There are nine members in a family with three married couples. B is the father of A. A is married to D. H is the mother of D. L is married to H. K is the son-in-law of L. G is the daughter of K. A is the mother of Y. A has no siblings.

12. Who is the granddaughter of H?

- A. Y
- B. G
- C. Both Y and G
- D. P
- E. None of these



13. Who is the sister-in-law of A
A. G
B. Y
C. P
D. K
E. None of these

Direction: Study the following data carefully and answer the questions accordingly.

Six people L, M, N, O, P and Q are of different heights. Only two people are shorter than N. O is not the tallest. L is shorter than O but taller than M. As many people are shorter than N are taller than L. Q is taller than M whose height is 56cm.

14. Who is the third taller?
A. M
B. Q
C. N
D. L
E. none of these
15. If the sum of the height of M and L is 131. Then, what is the possible height of N?
A. 75
B. 54
C. 68
D. 57
E. None of these
16. Who is the tallest among them?
A. M
B. P
C. L
D. N
E. None of these

17. If it is possible to make only one meaningful English word with the second, third, fourth and seventh letters of the word **MEDICATION**, then which of the following will be the second letter from the left of the newly formed word? If no such word can be formed give 'X' as the answer and if more than one such word can be formed give 'Y' as the answer.

- A. I
B. E
C. N
D. X
E. Y

18. How many such pairs of letters are there in the word **ORGANISE** each of which has as many letters between them in the word in both forward and backward directions as in the English alphabet?

- A. One
B. Two
C. Three
D. More than three
E. None of these

Direction: A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank appropriately.

19. He began _____ as soon as he heard the complaint.
A. Running
B. Investigating
C. Complaining
D. Shouting
E. Fumbling



20. We keep a record of everyone who _____ through.

- A. Pass
- B. Go
- C. Come
- D. Comes
- E. Ask

21. I was dumbstruck at how a small story I had once told _____ about so much change.

- A. Bought
- B. Brought
- C. Buy
- D. Think
- E. Came

22. The barber _____ some assistants to improve the service at his salon.

- A. Recruit
- B. Enrolled
- C. Hired
- D. Brought
- E. Looked

Direction: A sentence with a word in bold is given. Choose the word that can replace the highlighted word in the sentence without changing its meaning. If none of the words can replace then choose 'none can replace'. If the highlighted word can be replaced by all the options, then choose 'all can replace'.

23. I had to **gather** wood alone because no one came to my help.

- A. Assembled
- B. Muster
- C. Collect
- D. Put
- E. None can replace

24. She drove **through** a picturesque valley taking in the beauty of nature.

- A. Past
- B. Passed
- C. Pass
- D. Upon
- E. All can replace

Direction: Read the following sentence to find out if there is any error in it. The sentence is divided into four parts. The option containing the part of the sentence containing an error, is the answer. If the given sentence is correct as it is, mark E, i.e., 'No error' as the answer. Ignore the errors of punctuation if any.

25. We were ready (1)/ for the trip (2)/ but we got to know (3)/ the bus had cancel. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error



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Direction: In the following question, a word is given, which has been used in the three statements given below it. Identify the statement(s) in which the word fits contextually to convey a logical meaning.

26. Relive

I. He applied ointment on her injury to **relive** her pain

II. She wrote an email to the team lead to **relive** her from her position

III. She wanted to visit her hometown to **relive** her childhood memories

- A. Only I
- B. Only II
- C. Both II and III
- D. Only III
- E. All I, II and III

27. Break

I. He wanted to take a **break** from the monotony of his life.

II. They had to **break** the window to get into the house.

III. The secondary **break** comes handy in stopping a train when a locomotive is not attached to it.

- A. Only I
- B. Only II
- C. Both I and II
- D. Both II and III
- E. All I, II and III

28. A person **bitten** (1) by snake or mad dog can be **saved** (2) with **timely** (3) and proper **treatment**.(4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. All are correct

29. During **floods** (1) the **water** (2) rose to the **level** (3) of our **waste**.(4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. All are correct

Direction: In the given statement some words have been highlighted. These words may not be in the correct place making the sentence grammatically and contextually incorrect. Choose the option which represents the correct sequence of words, which will make the sentence grammatically and contextually correct. If the sentence is correct as it is, choose E i.e. 'No rearrangement required' as your answer.

30. Britain has **built(A)** many **hundred(B)** over the **monuments(C)** years.

- A. BCA
- B. ACB
- C. CAB
- D. BAC
- E. No rearrangement required



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Answers & Explanations

1. Ans. B.

$$\text{Speed of the train} = 90 \times \frac{5}{18} = 25$$

m/s

$$\text{Length of the train} = \text{Speed} \times \text{Time} \\ = 25 \times 15 = 375 \text{ meters}$$

Let the length of the platform = x meters, then

$$\text{Sum of the lengths of the train and platform} = \text{Speed} \times \text{Time}$$

$$(375 + x) = 25 \times 30 = 750$$

$$\Rightarrow x = 375$$

Hence, the length of the platform = x meters = 375 meters.

2. Ans. C.

$$\frac{8750 \times 20 \times 3}{100} = 2.5 \times \frac{x \times 10 \times 2}{100}$$

$$\Rightarrow x = 10,500.$$

3. Ans. E.

Let the present age of father = 7x years, then

the present age of son = 3x years

According to the question

$$7x + 4 = 2.5 \times 3x$$

$$\Rightarrow 0.5x = 4$$

$$\Rightarrow x = 8$$

Hence, the required sum = $\{(7x + 2) + (3x + 2)\}$ years = $(10x + 4)$ years = 84 years.

4. Ans. C.

Let the total work = 30 units (LCM of 10 and 15)

$$\text{Efficiency of A} = \frac{30}{10} = 3 \text{ units and}$$

$$\text{efficiency of B} = \frac{30}{15} = 2 \text{ units}$$

Let the required time = t hours

According to the question

$$(3 + 2) \times 3 + 3 \times 1 + 2 \times t = 30$$

$$\Rightarrow 15 + 3 + 2t = 30$$

$$\Rightarrow 2t = 30 - 18 = 12$$

$$\Rightarrow t = 6$$

Hence, the required time = 6 hours.

5. Ans. D.

Let the salary of the man = 100x, then

According to the question

$$60x - 60x \times \frac{2}{3} = 10000$$

$$\Rightarrow 20x = 10000$$

$$\text{Hence, the answer} = 100x - 20x = 80x = 4 \times 20x = \text{Rs. } 40,000.$$

6. Ans. E.

Let the side of the square = a cm, then

According to the question

$$\text{Perimeter of the square} + 52 = \text{Circumference of the circle}$$

$$4a + 52 = 2\pi(a + 1)$$

$$4a + 52 = 2 \times \frac{22}{7} \times (a + 1)$$

$$\Rightarrow 28a + 364 = 44a + 44$$

$$\Rightarrow 320 = 16a$$

$$\Rightarrow a = 20$$

$$\text{Hence, the area of the circle} = \pi(a + 1)^2 = \frac{22}{7} \times 21^2 = 1386 \text{ cm}^2.$$

7. Ans. C.

Let breadth of the rectangle = a cm and length of the rectangle =

Radius of the semi-circle = r cm, then

According to the question



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Perimeter of the rectangle =
Circumference of the semi-circle =
72 cm

$$2(a + r) = \pi r + 2r = 72$$

$$2(a + r) = \pi r + 2r$$

$$\Rightarrow 2a = \pi r = \frac{22}{7} \times r$$

$$\Rightarrow a = \frac{11r}{7} \dots (i)$$

Also,

$$2(a + r) = 72$$

$$\Rightarrow a + r = 36 \dots (ii)$$

From equations (i) and (ii), we get

$$a = 22$$

Hence, the breadth of the rectangle
= a = 22 cm.

8. Ans. E.

$$2x^2 - 23x + 38 = 0$$

$$\Rightarrow 2x^2 - 19x - (4x - 38) = 0$$

$$\Rightarrow x(2x - 19) - 2(2x - 19) = 0$$

$$\Rightarrow (2x - 19)(x - 2) = 0$$

$$\Rightarrow x = \frac{19}{2} \text{ and } 2$$

$$y^2 - 17y + 66 = 0$$

$$\Rightarrow y^2 - 6y - 11y + 66 = 0$$

$$\Rightarrow y(y - 6) - 11(y - 6) = 0$$

$$\Rightarrow (y - 6)(y - 11) = 0$$

$$\Rightarrow y = 11 \text{ and } 6$$

Hence, no relation can be
established.

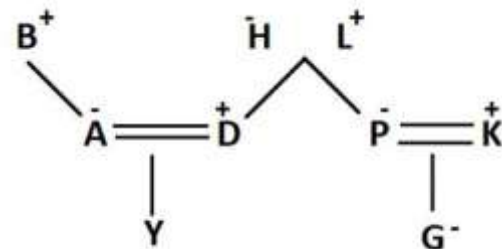
9. Ans. D.

B
G
E
C
F
A
D

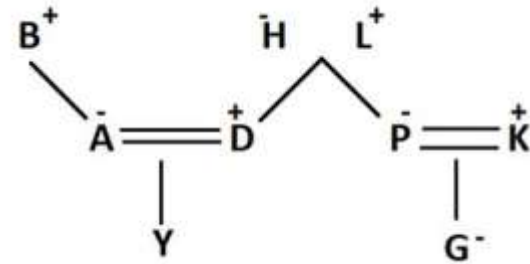
10. Ans. A.

B
G
E
C
F
A
D

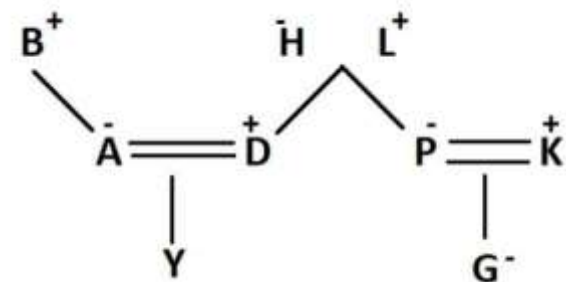
11. Ans. C.



12. Ans. B.



13. Ans. C.



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14. Ans. D.

P > O > L > N > Q > M

15. Ans. C.

P > O > L > N > Q > M

16. Ans. B.

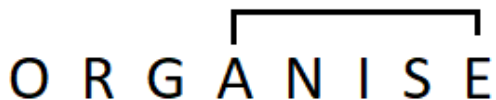
P > O > L > N > Q > M

17. Ans. E.

E, D, I and T are the 2nd, 3rd, 4th and 7th letter respectively.

New word - TIDE, DIET

18. Ans. A.


O R G A N I S E

19. Ans. B.

One after receiving a complaint would take action on it. Of the given options, the apt fit would be 'investigating'.

20. Ans. D.

Note that come through simply means to arrive. Here the sentence is trying to say that we keep a record of everyone who arrives. So, the correct answer would be D.

21. Ans. B.

The correct answer is B. We need a verb in past participle form in the given sentence. Of the given options, B and E fulfil the criteria, but only B makes sense contextually.

22. Ans. C.

The correct answer is C. Given the context, both B and C seem plausible, but a more appropriate fit here would be 'Hired', because employees are not enrolled, they are hired.

23. Ans. C.

Here 'collect' can replace the term 'gather' because, 'assembled' is grammatically incorrect. Others are contextual misfit. Thus, option C is the correct answer.

24. Ans. A.

Note that we can't use 'passed' or 'pass' after 'drove', as using verbs right after one another in English is incorrect. 'Past' here is a preposition. So, 'drove past' would simply mean pass by. So, the correct answer is A.

25. Ans. D.

The error is in the fourth part of the sentence. We need to replace 'had cancel' with 'had been cancelled' to rectify the same, as we are talking of 2 past incidents that happened one after another, so ideal tense would be past perfect tense.

26. Ans. D.

The correct answer is D. The word has been used correctly only in statement III. Statement I and II demands the word relieve which means to free or release.



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27. Ans. C.

The correct answer is C. First two statements demonstrate the correct usage of the word 'break' which means to damage/destroy(Statement II), a short period of rest (Statement I). In the third one the correct word would be 'brake'.

28. Ans. D.

The word 'Treatment' has been misspelled as 'treatment'

29. Ans. D.

The 4th word here is inappropriate. The correct word should be 'waist' to demarcate the level and not 'waste'.

30. Ans. B.

Here we need to exchange B and C to rectify the sentence. Note that after many we need a noun and not a number, so 'monuments' should come in second place.



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