BYJU'S EXAM PREP

RBI Assistant Prelims 2022 Memory-based Questions with Solutions

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Direction: What value will come in place of the question mark (?) in the following question?

1.

$\sqrt[3]{729} + \sqrt[4]{16} + 17 = ?$

A. 35
B. 49
C. 51
D. 19
E. 28

2. $15 + 10 \times 3^4 \div 6^2 = ?$

A. 62 .4
B. 42 .5
C. 37.5
D. 72 .4
E. 57.25

3. 26% of 500 + 4 × 32 = ?

A. 196
B. 258
C. 224
D. 282
E. 218

4. $96 \div ? \times 5 + 42 = 102$

A. 15
B. 24
C. 12
D. 8
E. None of these

Direction: (5–9) What should come in place of the question mark (?) in the following number series?

5.

140, 128, 115, 100, ?, 60

A. 88
B. 74
C. 78
D. 82
E. 80

6. 40, 42, 46, 54, ?, 102

A. 61
B. 70
C. 81
D. 64
E. 75

7. 6, 7, 13, 40, 159, ?

A. 651
B. 751
C. 796
D. 801
E. 901

8. Two schemes A and B offers 5% per annum and 10% per annum simple interest respectively. Manav invested 30% of Rs. 'P' for 4 years in scheme A and 70% of Rs. 'P' for 4 years in scheme B . If the total interest earned from schemes A and

B is Rs. 1700, then what is the value of 'P'?

A. 4000
B. 3400
C. 4800
D. 5000
E. 5100

9.Mohan can complete a work in 10 days. Mohan started the work and was joined by Rohan after 5 days. Together they finished the remaining work in 3 days. In how many days Rohan alone can complete the entire work?

A. 10
B. 14
C. 15
D. 12
E. 18

10.Tanya and Amit invested Rs. 2000 and Rs. 3000 respectively in a business. After 8 months Tanya withdrew her whole amount and Amit withdrew 50% of his investment. Total profit at the end of year was Rs. 1150. Find the profit share of Tanya.

A. Rs. 360
B. Rs. 400
C. Rs. 420
D. Rs. 450
E. Rs. 600

Direction: (11–15) Study the following information carefully and answer the questions given below.

Seven people i.e. P, Q, R, S, T, U, and V sit on a row equidistant to each other. All of them face towards the north direction. R sits third to the right of V. Neither R nor V sits at the extreme end of the row. Only one person sits between R and T . Q sits to the left of T. Only one person sits between U and P. P is an immediate neighbour of S. Q does not sit at the extreme end of the row.

11. Who sits at the right end?

A. Q
B. T
C. U
D. V
E. None of the above

12.How many people sit between V and T?

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

13.What is the position of S with respect to U?

A. Third to the left
B. Second to the right
C. Third to the right
D. Immediate right
E. None of these

14.Four of the following five are alike in a certain way and hence form a group. Which is the one that doesn't belong to that group?

A. R, T
B. V, S
C. Q, S
D. P, R
E. V, T

15.How many people sit to the right R?

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

16.If each consonant in the word **REMAINDER** is replaced by the next letter according to the English alphabetic series, after that all the vowels are deleted, then how many letters will remain in the word?

A. One
B. Three
C. Two
D. Four
E. None of these

17.How many such digits are there in the number **'7538294'** in which the digits are the same as in the number series both from backwards and forward?

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

Direction: (18–22) Following questions are based on the five three-digit numbers given below:

629 257 814 163 798

18. If all the digits in each number are arranged in ascending order within the number, then which of the following numbers will become the second lowest?

A. 789
B. 163
C. 814
D. 629
E. 257

19.If the 1st digit of each number is interchanged with the 3rd digit within the number, then which number becomes the highest?

A. 257
B. 629
C. 163
D. 798
E. 814

20.What is the product of the 1st digit of the largest number and the 2nd digit of the smallest number?

A. 40
B. 36
C. 48
D. 24
E. None of these

Direction: (21–24) In the following question, a sentence is given with blanks to be filled in with appropriate word(s). Five alternatives are suggested for the question. Choose the correct alternative out of the five.

21. The mother was happy _____ about her children.

A. Freaking
B. Thinking
C. Looked
D. Laugh
E. Cooked

22.All the animals in the jungle _____ harmony.

A. Thinks
B. Wishful
C. Maintain
D. Bringing
E. Lived

23.The tiger went to the doctor and _____ about the disease.

A. Enquiry
B. Forgot
C. Thought
D. Asked
E. Complaint

Direction: (24–29) In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E), i.e. "No correction required".

24. After the snail was hit by lightning, it **running** than the rabbit.

A. Runs so fast
B. Runs faster
C. Ran faster
D. Ran fast
E. No correction required

25.Mr. Singh had won the lottery **that** had lost the ticket.

A. For he
B. But he
C. Because he
D. As he
E. No correction required

26.He spent the entire day sitting on the bed and watching a recently **released** web series.

A. Realised B. Trailored
C. Live D. Uploaded
E. No correction required

Direction: (27–29) Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

27. The teacher stayed back (1)/ in the school to celebrate (2)/ his birthday with (3)/ all the his students. (4)

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

28.The boy tried to (1)/ find a place in (2)/ a crowded room to (3)/ complete his paintings. (4)

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

Direction: (29–31) 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.

29.

Issue

I. The manager organised a meeting to discuss the **issue** with the committee members.

II. The library can **issue** ten books to the research scholars.

III. Lara spent her whole life on the **issue** of educational awareness.

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

30.**Callus**

I. The king was **callus** in the treatment of his subjects.

II. The people were surprised at the **callus** comments being made by the judge.

III. Exposure to pressure can often lead to development of **callus** on the skin.

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

Answers & Explanations

1. Ans. E.

$? = \sqrt[3]{729} + \sqrt[4]{16} + 17$

$= 9 + 2 + 17$

$= 28$

2. Ans. C.

$? = 15 + 10 \times 3^4 \div 6^2$

$= 15 + 10 \times \frac{81}{36}$

$= 15 + 10 \times 2.25$

$= 15 + 22.5$

$= 37.5$

3. Ans. B.

$? = 26\%$ of $500 + 4 \times 32$

$= \frac{26}{100} \times 500 + 128$

$= 130 + 128$

$= 258$

4. Ans. D.

$96 \div ? \times 5 + 42 = 102$

$\Rightarrow \frac{96}{?} \times 5 = 102 - 42$

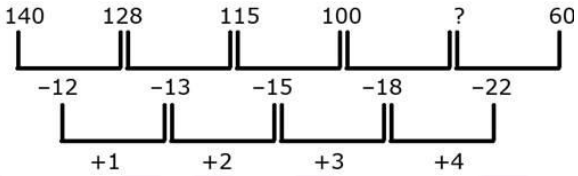
$\Rightarrow \frac{96}{?} \times 5 = 60$

$\Rightarrow \frac{96}{?} = 12$

$\Rightarrow ? = \frac{96}{12} = 8$

5. Ans. D.

The pattern of the series is:



∴ The missing number = 100 – 18 = 82.

Hence, option D is the correct answer.

6. Ans. B.

The pattern of the series is:

$40 + 2^1 = 42$

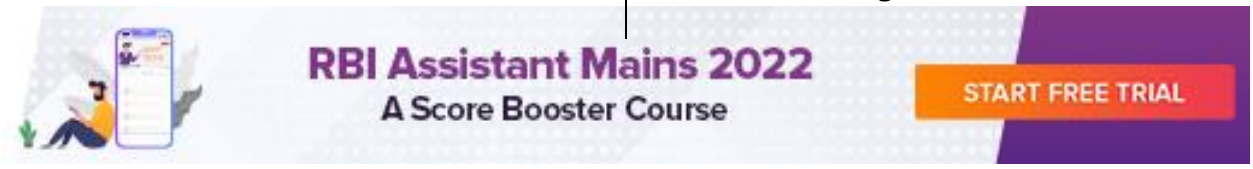
$42 + 2^2 = 46$

$46 + 2^3 = 54$

$54 + 2^4 = 70$

$70 + 2^5 = 102$

∴ The missing number is 70.



Hence, option B is the correct answer.

7. Ans. C.

The pattern of the series is:

$6 \times 1 + 1 = 7$

$7 \times 2 - 1 = 13$

$13 \times 3 + 1 = 40$

$40 \times 4 - 1 = 159$

$159 \times 5 + 1 = 796$

∴ The missing number is 796.

Hence, option C is the correct answer.

8. Ans. D.

30% of P = $P \times \frac{30}{100} = 0.3P$

Similarly, 70% of P = $P \times \frac{70}{100} = 0.7P$

According to question

$$\frac{0.3P \times 5 \times 4}{100} + \frac{0.7P \times 10 \times 4}{100} = 1700$$

$$\Rightarrow \frac{6P + 28P}{100} = 1700$$

$$\Rightarrow \frac{34P}{100} = 1700$$

$\Rightarrow P = 5000$

Hence, option D is the correct answer.

9. Ans. C.

Let efficiency of Mohan and Rohan be m units/day and r units/day respectively

Total work = 10m

$5m + 3(m + r) = 10m$

$\Rightarrow 8m + 3r = 10m$

$\Rightarrow 3r = 2m$

$$\Rightarrow r = \frac{2m}{3}$$

So, the required number of days = $\frac{10m}{r} = \frac{10m}{\left(\frac{2m}{3}\right)} = 15$.

Hence, option C is the correct answer.

10. Ans. B.

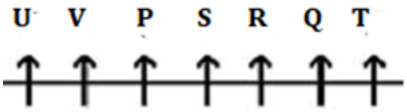
Ratio of profits of Tanya and Amit = $(2000 \times 8) : [(3000 \times 8) + (1500 \times 4)]$

= 16000 : 30000 = 8 : 15

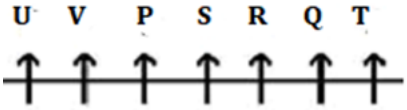
So, the profit share of Tanya = $\frac{8}{(8+15)} \times 1150$ = Rs. 400

Hence, option B is the correct answer.

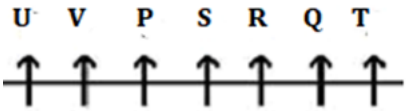
11. Ans. B.



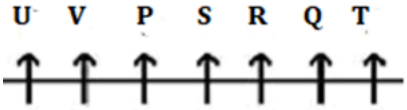
12. Ans. E.



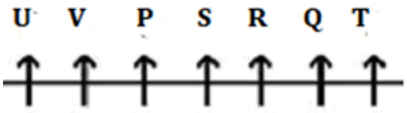
13. Ans. C.



14. Ans. E.



15. Ans. C.



16. Ans. B.

REMAINDER

After arrangement

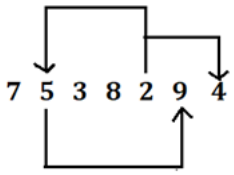
SENAIOEES

After deleting Vowels

SNS

Only three letters remaining

17. Ans. D.



18. Ans. C.

629 257 814 163 798

269 257 148 136 789

19. Ans. B.

629 257 814 163 798

962 752 418 361 897

20. Ans. C.

629 257 **8**14 1**6**3 798

8 x 6 =48

21. Ans. B.

The correct answer is option B.

Since the blank is being preceded by an adjective, 'happy', the blank needs to be filled by a noun. A gerund is the -ing form of a verb which acts as a verb+noun. This means, that from the given options, only 'freaking' and 'thinking' are gerunds that may be used for the

blank. Between these two, 'thinking' is a better choice since 'freaking', used to emphasise what is being said, or to express anger, is contextually inappropriate.

22. Ans. C.

The correct answer is option C.

Since the sentence is in the simple present tense, stating a universal truth, the word in the blank will be 'maintain'.

23. Ans. D.

The correct answer is option D.

The blank needs to be filled with the past form of the verb. This is because the sentence is in the past tense as denoted by the use of the verb 'went'. Among the given options, 'forgot', 'thought' and 'asked' may seem grammatically plausible, but contextually only 'asked' makes most sense.

24. Ans. C.

The correct answer is option C.

The emboldened word is contextually incorrect. The sentence uses the word 'than' to call for a comparison between the snail and the rabbit. The option that provides such a comparison is option C, 'ran **faster'.** Thus, option C will be the best replacement for the emboldened phrase.

25. Ans. B.

The correct answer is B.

The sentence can be divided into two parts: winning the lottery; losing the ticket. Since the two parts denote opposite actions, a contrasting conjunction is needed to join them. The most appropriate conjunction for the purpose is being provided by option B, 'but'. Thus, option B is the best replacement for the emboldened phrase.

26. Ans. E.

The correct answer is option E.

The sentence is correct as is, and needs no improvement. Thus, option E is the correct answer.

27. Ans. D.

The error is in the fourth part of the sentence. The phrase 'all the his students' is incorrect. Note that we need to omit the definite article 'the' to rectify the same.

28. Ans. E.

The sentence is grammatically correct. Hence, the correct answer is option E.

29. Ans. E.

The correct answer is option E.

Consider the following meanings of 'issue':

a) a subject or problem that people are thinking and talking about.

b) to produce or provide something official.

The meaning given in option 'a' makes the use of the word contextually correct in statements I and III.

The meaning given in option 'b' makes the use of the word contextually correct in statement II.

30. Ans. C.

The correct answer is option C.

Consider the meanings of the following words:

Callus: an area of hard skin, especially on the feet or hands.

Callous: unkind, cruel, and without sympathy or feeling for other people.

Thus, while 'callus' has been used aptly in statement III, a better word for statements I and II will be 'callous'.

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