

Sections	Number of questions	Marks	Duration of Exam
1. English Language	30	30	60 minutes
2. Reasoning	35	35	
3. Quantities Aptitude	35	35	
	Total = 100 Qs.	Total marks = 100	

1. English Language

Direction (Q. 1 - 10): Read the following passage very carefully and answer the questions given below appropriately. There are certain words and phrases in the passage printed in bold letters to help you find them out easily in order to answer some of the questions.

The dismissal is easy. But what it overlooks is that **beneath** the ostensible bourgeois dilettantism and the age of **abracadabra** seethes a desire sometimes fuzzy and inarticulate, but a desire nonetheless. A desire to make peace with what Camus so **evocatively** termed "the unreasonable silence of the world". The desire is as old as silence, but it reinvents itself across culture and chronology. And one of the remarkable features of the new Indian voyage of self-discovery is that the quantum of self-professed 'voyagers' is on the increase, even if the taste of the day runs to luxury liners rather than **catamarans**. Additionally, the arks of today are no longer peopled by geriatric Noahs. No longer does one have to defer one's existential dilemmas to the **vanaprasthashrama**. It is nautically permissible today for spiritual sailors to be grahams have in their 20s and 30s. Intriguing, given Jung's belief that the spiritual bug usually attacks in the 40s.

1. What does the author imply by "bourgeois dilettantism" and it being ostensible?

- 1) The ostentatious property owned by the middle-class
- 2) Claiming to understand the bourgeoisie
- 3) Showing apparent interest
- 4) Showing concern for material possessions rather than spiritual growth
- 5) None of these

2. What makes the dismissal easy?

- 1) The desire to make peace
- 2) The doctrine of Camus
- 3) Not yet being in the 40s
- 4) Love for materialism
- 5) None of these

3. 'The arks ... Noah's means that

- 1) Experience, today, does not pilot the boats.
- 2) We want a leader like Noah.
- 3) Boats capsize for want of direction.
- 4) The Noahs are a forgotten race. 5) None of these

4. What is true about the new Indian voyage to self discovery?

- a) The voyage is luxury personified.
 - b) It has reiterated Jung's theory.
 - c) It makes the belief of Camus seem innocuous
- 1) Only a 2) Only b 3) Only c 4) Only b & c 5) None of these

5. Why is the desire omnipresent?

- 1) It has survived all the hurdles.
- 2) The culture of India is deep-rooted.
- 3) It has not yet lost its sense of direction.
- 4) Both 1 & 2 5) None of these

6. What is the passage all about?

- 1) Philosophers of spiritualism
- 2) Skeptical view of spiritualism
- 3) Path to salvation
- 4) A voyage to seek salvation
- 5) None of these

Direction (Q. 7 - 8): Choose the word that is most nearly the SAME in meaning as the word as used in the passage.

7. Abracadabra

- 1) Trick 2) Jargon 3) Meaningless formula 4) Magic 5) Remarkable

8. Catamarans

1) Full sails 2) Raft 3) Boats 4) Schooners 5) Flagship

Direction (Q. 9 - 10): Select the word which is most nearly the OPPOSITE in meaning of the word as used in the passage.

9. Evocatively

1) Eloquently 2) Forgetfully 3) Ambiguous 4) Blatantly 5) None of these

10. Beneath

1) Up 2) Over 3) Above 4) On 5) Out

Direction (Q. 11 - 15): In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers 1,2,3,4 and 5. Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make it meaningfully complete.

11. His _____ health as a reason is a _____ to evade uneasy questions.

1) poor, tool 2) ailing, mode 3) citing, tactic 4) ill, device 5) weak, way

12. Denmark has offered to help _____ Davy, who has been on the _____ since Purulia incident.

1) catching, escape 2) find, anvil 3) pin, rounds 4) book, run 5) punish, move

13. Tiger, the ace golfer, is not in good books of his wife, who has _____ some serious questions against his

1) put, majesty 2) raised, gentleness 3) asked, power 4) doubts, majesty 5) charged, truth

14. Freedom of press and tolerance of _____ would be the move to _____ the restoration of democracy.

1) dissent, initiate 2) criticism, alter 3) justice, rail 4) administration, begin 5) outcry, march

15. The Doha declaration put the _____ of the _____ nations on the centre stage.

1) issues, third 2) right, develop 3) concerns, developing 4) problems, poor 5) needs, alien

Direction (Q. 16 - 20): Choose the most suitable option that will complete the conversation between A and B.

16. A. "What did you suggest to the student?"

B. "Well, I suggested that ,he _____ his parents."

1) shall convey 2) should consult 3) could come 4) must talk 5) consulted

17. A. "Why did you not attend the concert?"

B. "I would have attended if I _____ time."

1) would have 2) had had 3) will have 4) shall had 5) didn't waste

18. A. "The foreign minister wants to go Moscow quickly."

B. "_____ today, he would be there by Monday."

1) To leave 2) Leaving 3) Were he to leave 4) Had he left 5) Should he fly

19. A. "Amar is alone today."

B. "Yes,_____."

1) he is not 2) he is worried 3) he is adamant 4) isn't he? 5) is he?

20. A. "Do you need a car?"

B. "At the moment I am considering _____ one."

1) to buy 2) having bought 3) buying 4) new 5) for having

Direction (Q. 21 - 25): Read the following statements to decide their sequence to make a meaningful passage and then answer the questions given below them.

A. High deposit rates allow inflation to be low, threats were not high then inflation would be considerably higher.

B. The mandarins who trot forth this argument should be asked why the rest of civilization has brought down inflation rates without resorting to this recourse.

C. The control system should check out both inflation and interest rates in the crisis-ravaged East Asian economies.

D. Economies which witnessed about a 40-10% depreciation in currency value in 1947, are reporting inflation below 3% in 1999.

E The point is that a decline in inflation is a global phenomenon which even the most distorted policymakers in India have not been able to counteract.

F. What logic or politics is preventing this?

21. Which of the following should be the FIFTH sentence?

1) A 2) B 3) C 4) D 5) E

22. Which of the following should be the FIRST sentence?

1) E 2) D 3) B 4) D 5) A

23. Which of the following should be the THIRD sentence?

- 1) C 2) E 3) B 4) D 5) A

24. Which of the following should be the FOURTH sentence?

- 1) B 2) E 3) C 4) A 5) D

25. Which of the following should be the SECOND sentence?

- 1) A 2) B 3) C 4) D 5) E

Direction (Q. 26 - 30): Complete the following sentences.

26. Injured soldiers being treated in private nursing homes have_____.

- 1) all the facilities
2) been recuperating
3) no convalescence
4) all the expenses borne by the army
5) yet to reimburse

27. _____ has left behind a ravaged state.

- 1) Years of intrusion
2) The munitions
3) Militancy of a decade
4) Terrorism and its counter-attack 5) Action and military

28. _____ of human rights have to be respected come what may.

- 1) The rennets
2) The tenets
3) The tenement
4) Grace and dignity
5) The conceptualization and value

29. Despite her landlord's good behavior, she_____.

1) is grievous 2) resents me 3) evicted him 4) is skeptical 5) likes to please

30. The victory would not have been ours_____.

1) had it not happened timely

2) if the strategy had not been implemented

3) had it not been at the frontier

4) but for the brave

5) but for the unsung

Answers:

1. (4)

2. (5)

3. (1)

4. (1)

5. (5)

6. (4)

7. (3)

8. (3)

9. (2)

10. (2)

11. (3)

12. (4)

13. (2)

14. (1)

15. (3)

16. (2)



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17. (2)

18. (3)

19. (4)

20. (3)

21. (5)

22. (5)

23. (1)

24. (5)

25. (2)

26. (2)

27. (3)

28. (2)

29. (4)

30. (4)

2. Reasoning

1. How many such pairs of letters are there in the word 'ADVERTISE' each of which has as many letters between them in the word as they have in the English alphabet?

1) None 2) One 3) Two 4) Three 5) None of these

2. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

1) 115 2) 145 3) 95 4) 155 5) 75

3. How many meaningful words can be made from the letters EADL, using each letter only once?

1) None 2) One 3) Two 4) Three 5) More than three

4. The position of how many digits in the number 7136985 will remain unchanged when the digits are rearranged in ascending order?

1) None 2) One 3) Two 4) Three 5) Four

5. 'NO/' is related to 'PS' and 'EH' is related 'GJ' in the same way As 'SV is related to

1) UX 2) UW 3) UY 4) XY 5) None of these

6. Pointing to a boy, Sky said, "He is the son of my father's only brother." How is Sky related to that boy?

1) Sister 2) Cousin 3) Daughter 4) Data inadequate 5) None of these

7. In a certain code, 'MADE' is Written as ' \$ % # ' and 'SOME' is written as '@@ \$ #'. How would 'DOES' be written in that code?

1) ©*#@ 2)*©@# 3)*©#@ 4) ©• @# 5) None of these

8. If 'sky' means 'star'; 'star' means 'cloud'; 'cloud' means 'earth'; 'earth' means 'tree'; and 'tree' means 'book'; then where do the birds fly?

1) star 2) sky 3) cloud 4) Data inadequate 5) None of these Direction (Q. 9 - 10): Study the following information carefully and answer the questions given below:

i) 'P x Q' means 'P is the brother of Q'.

ii) 'P + Q' means 'P is the father of Q'.

iii) 'P - Q' means P is the sister of Q'.

iv) 'P - Q' means 'P is the mother of Q'.

v) None of these

9. Which of the following means 'R' is the paternal uncle of 'B'?

a) B x Q+L * R

b) B x D - J x R x K

c) R x P + S x B

1) Only (a) 2) Only (b) 3) Only (c) 4) Both (a) and (b) 5) None of these

10. Which of the following statements is/are superfluous to answer the above question?

1) (i)only 2) (ii)only 3) (iii) only 4) (iii) and (iv) only 5) None of these

Direction (Q. 11 - 15): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions.

1) if only conclusion I follows.

2) if only conclusion II follows.

3) if either conclusion I or II follows.

4) if neither conclusion I nor II follows.

5) if both conclusions I and II follow.

11. Statements: $W > R > K = S, R > N = P$

Conclusions: I. $W > P$ II. $R = S$

12. Statements: $T > K < R = M$

Conclusions: I. $T > R$ II. $K < M$

13. Statements: $V > M, A > M, R < V$

Conclusions: I. $V > A$ II. $M = V$

14. Statements: $P < Q < C < M = F$

Conclusions: I. $Q < F$ II. $Q < C$

15. Statements: $W < Y > Z = X > P > J$

Conclusions: I. $Y > P$

Direction (Q. 16 - 20): Study the following information carefully to answer these questions.

8 D K \$ P 2 3 # @ 4 J T H 9 © F M R 1 5 % ? 6 7

16. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to the group?

1) \$3 2) @T 3) 9M 4) 1? 5) 7%

17. How many such numerals are there in the above arrangement which are immediately followed by a symbol and also immediately preceded by a letter?

1) None 2) Three 3) Two 4) One 5) None of these

18. What will come in place of question mark (?) in the following series based on the above arrangement?

KPD 3@2 ? ©M9

1) RT@ 2) JH@ 3) 4T# 4) JH4 5) None of these

19. DP:65::3@:? :

1) 1M 2) RF 3) IF 4) RM 5) None of these

20. How many such symbols are there in the above arrangement which are immediately followed by a letter but not immediately preceded by a letter?

1) One 2) Two 3) Three 4) Nil 5) None of these
Direction (Q. 21 - 25): Study the following information carefully and answer the questions given below:

i) A, B, C, D, E, F and G are sitting on a wall and all of them are facing east.

ii) C is on the immediate right of D.

iii) B is at extreme end and has E as his neighbor.

iv) G is between E and F.

v) D is sitting third from the South end

21. Who is sitting to the right of E?

1) A 2) C 3) D 4) G 5) None of these

22. Which of the following pairs is sitting at the extreme ends?

1) AB 2) AE 3) CB 4) FB 5) None of these

23. Name the person who should change his seat with 'C', so that he gets the third place from the North end.

1) E 2) F 3) G 4) D 5) None of these

24. Immediately between which of the following pairs of persons is D sitting?

1) AC 2) AF 3) CE 4) CF 5) None of these

25. Which of the conditions (i) to (v) given above is not required to find out the place where A is sitting?

1) (i) 2) (ii) 3) (iii) 4) (iv) 5) All are required

Direction (Q. 26 - 30): In each questions below are three statements followed by two conclusions numbered I and II. You have to take the three given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

1) if only conclusion I follows.

2) if only conclusion II follows.

3) if either conclusion 1 or II follows.

4) if neither conclusion I nor II follows.

5) if both conclusions I and II follow.

26. Statements: Some desks are chains.

Some chains are tables.

All tables are ponds.

Conclusions: I. Some ponds are chains.

II. Some ponds are desks.

27. Statements: All sweets are fruits.

Some fruits are pencils.

All pencils are rats.

Conclusions: I. Some rats are sweets.

II. Some rats are fruits.

28. Statements: Some books are huts.

Some huts are walls.

Some walls are nets.

Conclusions: I. Some nets are books.

II. Some nets are huts.

29. Statements: All roofs are windows.

All windows are mobiles.

All mobiles are buses. i

Conclusions: I. Some buses are roofs.

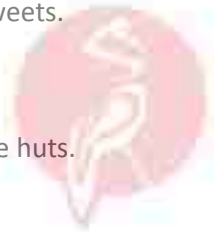
II. Some mobiles are roofs.

30. Statements: All buildings are towers.

No tower is a road.

Some roads are huts.

Conclusions: I. Some huts are buildings.



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II. No hut is a building.

Direction (Q. 31 - 35): Study the following information carefully and answer the questions given below:

P, Q, R, S, T, U, V, W and X are sitting around a circle facing the centre. Q is fourth to the left of V, who is second to the right of R. U is fourth to the right of R and is second to the left of X. P is fourth to the right of X. S is not an immediate neighbor of either X or Q. W is third to the right of T.

31. In which of the following combinations is the third person sitting between the first and the second person?

1) TXQ 2) RWQ 3) PVR 4) UVS 5) None of these

32. Who is fourth to the left of T?

1) P 2) R 3) V 4) Data inadequate 5) None of these

33. Who is second to the right of X?

1) R 2) W 3) U 4) T 5) None of these

34. Who is third to the right of W?

1) P 2) S 3) V 4) U 5) None of these

35. Who is fourth to the right of S?

1) X 2) W 3) T 4) Q 5) None of these

Answers:

1. (2);

ADVERTISE

2. (5);

If you divide others by 5, you get a prime number.

3. (4);

DALE, DEAL, LEAD

4. (3);

The given number : 7 1 3 $\boxed{6}$ 9 $\boxed{8}$ 5

In ascending order: 1 3 5 $\boxed{6}$ 7 $\boxed{8}$ 9

5. (1);

Move two letters forward in the alphabet for corresponding letter.

6. (2);

The boy is the son of Sky's father's only brother.

= The boy is the son of sky's uncle.

= The boy is sky's cousin.

7. (3);

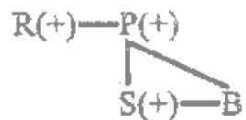
M	A	D	E	S	O
\$	%	*	#	@	©

Therefore, DOES = *©#@

8. (4);

Birds fly in the sky. But we don't know what means sky

9. (3);



10. (4);

No question consists of the sign + and -

11. (1)

12. (2)

13. (4)

14. (2)

15. (1)

16. (5);

In all others the second element comes later in the given sequence.

17. (4); H9©

18. (4);

Move four elements forward in the given sequence for each corresponding element.

19. (2);

The corresponding elements is the same-numbered element from the right

20. (1); ©

21. (4)

22. (1)

23. (3)

24. (4)

25. (5)

26. (1);

Some chains are tables + All tables are ponds = I + A = I = Some chains are ponds.

Conversion > some ponds are chains (I). Hence I follow. Some desks are chains + Some chains are ponds = 1 + 1 = No conclusion. Hence II does not follow.

27. (2);

Some fruits are pencils + All pencils are rats I + A = I = Some fruits are rate > Conversion > Some rats are fruits (I). Hence II follows. All sweets are fruits + Some fruits are rats = A + I = No conclusion. Hence I does not follow.

28. (4); I + I = No conclusion.

29. (5);

All roofs are windows + All windows are mobiles = A + A = All roofs are mobiles > conversion > Some mobiles are roofs (I). Hence II follows. All roofs are mobiles + All mobiles are buses = A + A = A = All roofs are buses > conversion > some buses are roofs (I). Hence I follow.

30. (3);

They form a complementary I-E pair.

31. (4)

32. (1)

33. (2)

34. (3)

35. (5)

3. Quantitative Aptitude

Direction (Q. 1 - 25): What should come in place of question mark (?) in the following equations?

1. $82\% \text{ of } 750 + ? \% \text{ of } 320 = 727$

1) 25 2) 30 3) 35 4) 40 5) 45

2. $15 \times 1786 \div 47 + 2 = ?$

1) 590 2) 592 3) 594 4) 596 5) 598

3. $\sqrt{?} + 57 = \sqrt{16900}$

1) 2809 2) 3969 3) 5329 4) 6889 5) 8649

4. $\frac{2}{7} \text{ of } \frac{3}{5} \text{ of } \frac{9}{11} \text{ of } 4620 = ?$

1) 642 2) 644 3) 646 4) 648 5) 650

5. $\sqrt[3]{74088} = ?$

1) 36 2) 38 3) 42 4) 44 5) 46

6. $24.8 \times ? = 94.24$

1) 4.2 2) 4.1 3) 3.9 4) 3.8 5) 3.6

7. $72\% \text{ of } 655 + ? \% \text{ of } 10 = 476$

1) 36 2) 38 3) 40 4) 42 5) None of these

8. $786.73 + 217.58 + 1122.97 - 133.33 = ?$

1) 1983.85 2) 1993.95 3) 1973.65 4) 1964.05 5) None of these

9. $48 \times ? = 186048 \div 57$

1) 62 2) 64 3) 66 4) 68 5) None of these

10. $(42)^4 \times 7^3 \div (49)^5 \div (36)^2 \times (7)^2 = (7)^?$

1) 3 2) 5 3) -3 4) -5 5) None of these

11. $0.3 \times 3.3 \times 3.33 = ?$

- 1) 9.7247 2) 6.4727 3) 3.2967 4) 27.93 5) None of these

12. $840 \div 4 \div 0.75 = ?$ % of 400

- 1) 40 2) 50 3) 60 4) 70 5) 80

13. $\sqrt{?} + \sqrt{1444} = \sqrt{3844}$

- 1) 1024 2) 784 3) 676 4) 576 5) 484

14. ?% of 975 – 55% of 140 = 391

- 1) 48 2) 46 3) 45 4) 44 5) 40

15. $\frac{7}{15}$ of $\frac{5}{8}$ of 45% of 140 = 391

- 1) 48 2) 46 3) 45 4) 44 5) 40

16. $\frac{972}{?} = \frac{?}{75}$

- 1) 250 2) 260 3) 270 4) 280 5) 320

17. $\sqrt{?} + 45 = \sqrt{6561}$

- 1) 784 2) 1024 3) 1156 4) 1296 5) 1444

18. $447.37 - 112.42 + 172.87 = ? - 42.68$

- 1) 545.62 2) 547.68 3) 548.72 4) 549.64 5) 550.50

19. $(28)^2 \div ? = \sqrt{9604}$

- 1) 6 2) 8 3) 12 4) 16 5) None of these

20. $17.2 \times 12.5 = 2 \times ?$

- 1) 103.5 2) 104.5 3) 105.5 4) 106.5 5) 107.5

21. 2.8% of 6600 – 7.2% of 450 = ?

- 1) 152.5 2) 154.6 3) 156.4 4) 158.2 5) None of these

22. $\frac{11}{13}$ of $\frac{17}{15}$ of 1365 = ?

- 1) 1306 2) 1309 3) 1312 4) 1315 5) 1318

23. $(26)^2 - (22)^2 = 3 \times ?$

1) 60 2) 62 3) 64 4) 66 5) 68

24. $\sqrt{2025} + \sqrt{5625} = ?$ % of 1500

1) 15 2) 12 3) 10 4) 8 5) 6

25. $\frac{18 \times 12 + 18}{15 \times 16 - 237} = ?$

1) 72 2) 74 3) 76 4) 78 5) None of these

26. A train crosses a pole in 12 seconds and a 300-metre long platform in 32 seconds. If its speed is 15 ms⁻¹ then what is the length of the train?

1) 80m 2) 120m 3) 150m 4) 180m 5) None of these

27. If the difference between the compound interest and the simple interest earned on a sum of money at the rate of 20% p.a. for two years is ₹24, what is the amount ?

1) Rs. 400 2) Rs. 600 3) Rs. 800 4) Rs. 1200 5) None of these

28. A canteen requires 126 dozen of eggs for a week. How many eggs will it require for 11 days?

1) 2248 2) 2376 3) 2464 4) 2512 5) None of these

29. If the difference between 82% of a number and 47% of the same number is 154, what is 56% of the number?

1) 246.4 2) 2472 3) 248.0 4) 249.6 5) 252.4

30. Which is the smallest fraction among the following?

1) $\frac{51}{47}$ 2) $\frac{33}{29}$ 3) $\frac{4}{3}$ 4) $\frac{7}{6}$ 5) $\frac{11}{9}$

31. What should come in place of question mark (?) in the following series?

12, 39, 255, 984, 2712, ?

1) 5272 2) 5664 3) 6087 4) 6212 5) 6448

32. A rectangular room has length 24 metres and breadth 15 metres. What will be the total cost if the floor is made at Rs. 8 per square meter?

1) Rs. 2460 2) Rs. 2880 3) Rs. 3020 4) Rs. 3240 5) None of these

33. The ratio of the age of 'A' to that of 'B' is 2 : 5. After 20 years the new ratio of their ages will be 4 : 7. What is the present age of 'B'?

1) 30 years 2) 40 years 3) 50 years 4) 60 years 5) 20 years

34. In a two-digit number, the digit in unit's place is 60% of the digit in ten's place. If the sum of the two digits of the number is 8 then what is the number?

- 1) 71 2) 62 3) 53 4) 35 5) 26

35. An amount of ₹14800 becomes ₹26973 after two years at compound interest. What is the rate of interest?

- 1) 55% 2) 45% 3) 35% 4) 25% 5) 15%

Answers:

1. (3);

$$\frac{82 \times 750}{100} + \frac{320x?}{100} = 727$$

$$? = \frac{100}{320} (727 - 615) = \frac{11200}{320} = 35$$

2. (2);

$$? = \frac{15 \times 1786}{47} + 22 = 570 + 22 = 592$$

3. (3);

Because, $\sqrt{5329} = 23$

Therefore, $73 + 57 = 130 = \sqrt{16900}$

4. (4);

$$? = \frac{4620 \times 2 \times 3 \times 9}{7 \times 5 \times 11} = 648$$

5. (3);

Because, $(42)^3 = 74088$

6. (4);

7. (5);

$$\frac{? \times 10}{100} = 476 - \frac{72 \times 655}{100}$$

$$= 476 - 471.6 = 4.4$$

Therefore, $? = \frac{4.4 \times 100}{10} = 44$

8. (2)

9. (4)

10. (4);

$$(42)^4 \times (7)^3 \div (49)^5 \div (36)^2 \times (7)^{-2}$$

$$= 7^4 \times 6^4 \times 7^3 \div 7^{10} \div 6^4 \times (7)^{-2}$$

$$= (7)^{4+3-10-1} \times (6)^{4-4} = (7)^{-8 \times 1} = (7)^{-5}$$

11. (3)

12. (4);

$$\frac{? \times 400}{100} = \frac{840}{4 \times .75} = 280$$

$$\text{Therefore, } ? = \frac{280 \times 100}{400} = 70$$

13. (4)

14. (1);

$$\frac{? \times 975}{100} = 391 + \frac{140 \times 55}{100}$$

$$= 391 + 77 = 468$$

$$\text{Therefore, } ? = \frac{468 \times 100}{975} = 48$$

15. (2);

$$\frac{?}{2} = \frac{7}{15} \times \frac{5}{8} \times \frac{45}{100} \times 32400 = 4252.5$$

$$\text{Therefore, } ? = 2 \times 4252.5 = 8505$$

16. (3);

$$(?)^2 = 972 \times 75$$

$$= (18 \times 18 \times 3) \times (5 \times 5 \times 3)$$

$$\text{Therefore, } (?)^2 = (3 \times 5 \times 18)^2$$

$$\text{Therefore, } ? = 3 \times 5 \times 18 = 270$$

17. (4);

$$\sqrt{?} + 45 = \sqrt{6561} = 81$$

$$\text{Therefore, } \sqrt{?} = 81 - 45 = 36$$

$$\text{Therefore, } (36)^2 = 1296$$

18. (5);

$$? = 447.37 + 172.87 - 112.42 + 42.68 = 550.5$$

19. (2);

$$\frac{(28)^2}{?} = \sqrt{9604} = 98$$

$$\text{Therefore, } ? = \frac{28 \times 28}{98} = 8$$

20. (5);

$$? = \frac{17.2 \times 12.5}{2} = 107.5$$

21. (5);

$$? = \frac{2.8 \times 6600}{100} - \frac{7.2 \times 450}{100}$$

$$= 184.8 - 32.4 = 152.4$$

22. (2)

$$? = \frac{1365 \times 11 \times 17}{13 \times 15} = 1309$$

23. (3);

$$3 \times ? = (26 + 22)(26 - 22)$$

$$= 48 \times 4 = 192 \quad \text{Therefore, } ? = \frac{192}{3} = 64$$

24. (4);

$$\frac{? \times 1500}{100} = \sqrt{2025} + \sqrt{5625}$$

$$= 45 + 75 = 120 \quad \text{Therefore, } ? = \frac{120 \times 100}{150} = 8$$

25. (4);

$$? = \frac{18 \times 12 + 18}{15 \times 16 - 237} = \frac{216 + 18}{240 - 237}$$

$$= \frac{234}{3} = 78$$

26. (4);

$$\text{Length of train} = 12 * 15 = 180\text{m}$$

$$27. (2); \text{ Amount} = \frac{24 * (100)^2}{(20)^2} = \frac{240000}{400} = 600$$

28. (2);

In seven days, eggs = 126 dozen, so for one day it is 18 dozen = 216 eggs

$$\text{Therefore, For 11 day, No. of eggs} = 216 * 11 = 2376$$

29. (1);

Let the number be x

$$\text{Therefore, } X * \frac{(82-47)}{100} = 154; \quad \text{Therefore, } x = \frac{15400}{35} = 440$$

$$\text{Therefore, } 56\% \text{ of } 440 = \frac{56}{100} * 440 = 246.4$$

30. (1);

$\frac{51}{47}$ is the smallest.

31. (3);

The series is $+3^3, +6^3, +9^3, +(12)^3, \dots$

32. (2);

$$\text{Area of the room} = 24 * 15 = 360 \text{ sq m}$$

$$\text{Therefore, Cost of flooring} = 360 * 8 = \text{Rs. } 2880$$

33. (3);

$$\frac{A}{B} = \frac{2}{5}; \quad \text{Therefore, } 2B = 5A \quad \dots\dots(i)$$

$$\frac{A+20}{B+20} = \frac{4}{7} \quad \text{Therefore, } 7A - 7A = 60 \quad \dots\dots(ii)$$

From eqns (i) and (ii), A = 20 years and B = 50 years

34. (3);

Let the number be $10x + y$

$$Y + \frac{60}{100} \times x \quad \text{Therefore, } 5y = 3x$$

$$X + y = 8 \quad \text{Therefore, } 3x + 3y = 24$$

$$\text{Therefore, } 5y + 3y = 24 \quad \text{Therefore, } y = 24/5 = 3$$

$$\text{Therefore, } x = 5 \quad \text{So the number is } 53$$

35. (3);

$$1 + \frac{r}{100} = \sqrt{\frac{26973}{14800}}$$

$$\text{Therefore, } 1 + \frac{r}{100} = \sqrt{\frac{182.25}{100}} = \frac{13.5}{10}$$

$$\frac{r}{100} = 1.35 - 1 = 0.35$$

$$\text{Therefore, } r = 0.35 \times 100 = 35\%.$$



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