

## PART I

*Test of Quantitative Ability*

1. Two-thirds of one-third of a number is equal to three-fifths of five-ninths of another number. What percentage of the second number is the first number?  
(A) 150% (B) 120%  
(C) 130% (D) 67%
2. Which of the following is not irrational?  
(A)  $(3 + \sqrt{7})$  (B)  $(3 - \sqrt{7})$   
(C)  $(3 + \sqrt{7})(3 - \sqrt{7})$  (D)  $3\sqrt{7}$
3. The average of four consecutive odd numbers, A, B, C and D, is 94. What is the product of A and C?  
(A) 8835 (B) 8463  
(C) 8827 (D) None of these
4. A man went to the Reserve Bank of India with Rs. 1,000. He asked the cashier to give him Rs. 5 and Rs. 10 notes only in return. The man got 175 notes in all. Find how many notes of Rs. 5 and Rs. 10 he received.  
(A) (25, 150) (B) (40, 110)  
(C) (150, 25) (D) None of these



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9. A 476-meter long moving train crosses a pole in 14 seconds. The length of a platform is equal to the distance covered by the train in 20 seconds. A man crosses the same platform in 7 minutes and 5 seconds. What is the speed of the man in meters per second?
- (A)  $1.8 \text{ m/s}$  (B)  $1.4 \text{ m/s}$   
(C)  $1.6 \text{ m/s}$  (D)  $1.2 \text{ m/s}$
10. In a class of 60 students, 15 percent are girls. Each girl's monthly fee is Rs. 250, and each boy's monthly fee is 34 percent higher than that of a girl. What is the total monthly fee for both girls and boys combined?
- (A) Rs. 19,335 (B) Rs. 18,435  
(C) Rs. 19,345 (D) None of these
11. A sum of Rs. 100 is lent at simple interest of 6% p.a. for the first month, 12% p.a. for the second month, 24% p.a. for the third month and so on. What is the total amount of interest earned at the end of one year?
- (A) 2047.5 (B) 2045.5  
(C) 2074.5 (D) 2054.5
12. In what ratio should water be mixed with milk to achieve a 20% profit by selling the mixture at the cost price?
- (A) 1:5 (B) 5:1  
(C) 2:3 (D) 3:2

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13. A train leaves Chennai at 6:00 a.m. and reaches Bangalore at 10:00 a.m. Another train leaves Bangalore at 8:00 a.m. and reaches Chennai at 11:30 a.m. At what time do the two trains meet?

(A) 8:00 a.m.

(B) 8:56 a.m.

(C) 9:56 a.m.

(D) 8:30 a.m.

14. In how many ways can the letters of the word GREAT be arranged such that vowels are not together?

(A) 48

(B) 72

(C) 120

(D) 64

15. The diagonal of a rectangle is 5 cm, and one of its sides is 4 cm. What is its area?

(A)  $20 \text{ cm}^2$

(B)  $12 \text{ cm}^2$

(C)  $10 \text{ cm}^2$

(D) None of these

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**PART II*****Test of Reasoning Ability***

***Directions (questions 16-18):*** Two/four statements are given in each of the following questions, followed by three/four conclusions numbered I, II, III, and IV. You have to take the given statements to be true even, if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion(s) logically follows from the given statements disregarding commonly known facts.

## 16. Statements

1. All philosophers are fools.
2. All fools are illiterate.

## Conclusions

- I. All philosophers are illiterate.
  - II. All illiterates are philosophers.
  - III. All illiterates are fools.
  - IV. Some illiterates would be philosophers.
- (A) Only IV follows                      (B) Only II follows  
(C) I and IV follow                      (D) III and IV follow

## 17. Statements

1. Some years are decades.
2. All centuries are decades.

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Conclusions

- I. Some centuries are years.
  - II. Some decades are years.
  - III. No century is a year.
- (A) Conclusions I and II follow    (B) Conclusions I and III follow  
(C) Conclusion I follows            (D) Conclusion II follows

18. Statements

- 1. All clerks are superintendents.
- 2. All superintendents are managers.
- 3. All managers are supervisors.

Conclusions

- I. All supervisors are clerks.
  - II. Some clerks are supervisors.
  - III. Some managers are clerks.
  - IV. All superintendents are clerks.
- (A) Only conclusion I                (B) Only conclusion II  
(C) Only conclusion III              (D) Only conclusion IV

19. The day before the day before yesterday is three days after Saturday. What day is it today?

- (A) Tuesday                            (B) Wednesday  
(C) Thursday                            (D) Friday

**Directions (Questions 20-21):** A statement is given for each of the questions mentioned below, followed by three assumptions numbered I, II, and III. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions, and decide which of the assumptions is implicit in the statement, then decide which of the answers (A), (B), (C) and (D) is a correct answer.

20. Statement

An advertisement of a travel agency in an Indian newspaper states - "If you desire to enjoy the best holiday to Europe, join our exclusive EURO package."

Assumptions

- I. Many Indians travel to European countries to spend their holidays.
  - II. There are other travel agencies in India which organise holiday tours to Europe.
  - III. Many people may still travel to Europe through other travel agencies.
- (A) All are implicit                      (B) Both I and II are implicit  
(C) Only I is implicit                      (D) Both I and III are implicit

21. Statement

A newspaper report states - "The Prime Minister is expected to announce an expansion in his Ministry shortly."

Assumptions

- I. The newspaper has quoted authentic sources.
- II. The newspaper has reliable sources for the news.

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III. The Prime Minister has the power to expand his cabinet.

- (A) I and II are implicit                      (B) II and III are implicit  
(C) I and III are implicit                      (D) All are implicit

22. Rearrange the following six sentences (i), (ii), (iii), (iv), (v) and (vi) in the proper sequence to form a meaningful paragraph.

- (i) “Certainly,” said the wolf and began to howl.  
(ii) “I know,” said the sheep, “but please grant me my last wish.”  
(iii) Hearing him howl, the farmer’s dogs rushed to the spot and drove him away.  
(iv) A young wolf cornered a sheep in the farm.  
(v) “My wish is for you to sing me a song so that I may dance once last time.”  
(vi) “You can’t escape from me”, said the proud wolf.

- (A) (ii), (v), (i), (vi), (iii), (iv)    (B) (vi), (ii), (i), (iii), (v), (iv)  
(C) (iv), (vi), (ii), (v), (i), (iii)    (D) None of these

23. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to the group?

- (A) Jowar    (B) Sesame  
(C) Millet    (D) Wheat

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24. If each alternate letter beginning with the first in the word WORKING is replaced by the next letter in the English alphabet and each of the remaining letters is replaced by the previous letter in the English alphabet, which of the following will be the fourth from the right end after the replacement?
- (A) M (B) N  
(C) J (D) None of these
25. Ruhu walked 30 metres towards East, took a right turn and walked 20 metres, again took a right turn and walked 30 metres. How far was he from the starting point?
- (A) 10 metres (B) 20 metres  
(C) 30 metres (D) None of these
26. In a certain code 'good and bad' is written as '7 2 5'; 'one and all' is written as '9 3 2' and 'this is good' is written as '1 5 4'. How is 'one' written in that code?
- (A) 9 (B) 2  
(C) Data inadequate (D) None of these
27. Choose the group of letters which is different from others.
- (A) CZHK (B) MLAG  
(C) XUBU (D) SEN0

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28. CAT : DDY :: BIG : ?

(A) CLL

(B) CLM

(C) CML

(D) CEP

29. In a class of 60, where girls are twice that of boys, Komal ranked seventeenth from the top. If there are 9 girls ahead of Komal, how many boys are after him in rank?

(A) 3

(B) 7

(C) 12

(D) 23

30. Find which one word cannot be made from the letters of the given word: SUPERIMPOSABLE

(A) SPIRE

(B) REPTILE

(C) POSSIBLE

(D) REPOSURE