

PART- I: Test of Quantitative Ability

1. Gauri bought things worth Rs. 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items?
 - A. Rs. 15
 - B. Rs. 15.70
 - C. Rs. 19.70
 - D. Rs. 20
2. If $\log_{10}7 = a$, then $\log_{10}(1/70)$ is equal to
 - A. $-(1 + a)$
 - B. $(1 + a)^{-1}$
 - C. $a/10$
 - D. $1/10a$
3. How many 3-digit numbers can be formed from the digits 2, 3, 5, 6, 7 and 9, which are divisible by 5 and none of the digits is repeated?
 - A. 5
 - B. 10
 - C. 15
 - D. 20
4. A container contains a mixture of two liquids A and B in the ratio of 7:5. When 9 litres of mixture are drawn off and the container is filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A were there in the container initially?
 - A. 10
 - B. 20
 - C. 21
 - D. 25

5. Two alloys of gold and copper were prepared by mixing metals in the ratio 7:3 and 7:13 respectively. Then equal quantities of the two alloys were melted together to form a third alloy. The proportion of gold and copper in the third alloy was ...
- A. 5:4
 - B. 6:5
 - C. 21:19
 - D. 8:7
6. The diameter of a cart wheel is 35cm. It revolves once in two seconds. The cart speed is
- A. 3.96 kmph
 - B. 1.98 kmph
 - C. 4.44 kmph
 - D. 5.5 kmph
7. A cylinder has a radius of 20cm and its height is 50cm. If it is already 40% filled with a liquid, how many more cubic centimetres of liquid must be added to completely fill it?
- A. 18000π
 - B. 2000π
 - C. 16000π
 - D. 12000π
8. John can mow his lawn in 't' hours. 2 hours after he started work it began to rain. What part of the lawn is left unmowed?
- A. $(2-t)/t$
 - B. $(t-2)/2$
 - C. $(t-2)$
 - D. $t-2/t$
9. The numerator and denominator of a fraction are in the ratio of 2:3. If 6 is subtracted from the numerator the result will be a fraction that has a value $2/3$ of the original fraction. The numerator of the original fraction is
- A. 27
 - B. 18
 - C. 36
 - D. 6

10. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively. If they cross each other in 23 seconds, what is the ratio of their speeds?
- A. Insufficient data
 - B. 3:1
 - C. 1:3
 - D. 3:2
11. When an item is sold for Rs. 18,700/- the owner loses 15%. At what price should that item be sold to get a gain of 15%?
- A. 25100
 - B. 25200
 - C. 25300
 - D. 25400
12. Two pipes A and B can fill a cistern in $37\frac{1}{2}$ minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after...
- A. 5 mins
 - B. 9 mins
 - C. 8 mins
 - D. 7 mins
13. P is able to do a piece of work in 15 days and Q can do the same work in 20 days. If they can work together for 4 days, what is the fraction of work left?
- A. $\frac{8}{15}$
 - B. $\frac{9}{15}$
 - C. $\frac{6}{15}$
 - D. $\frac{7}{15}$
14. Ten years ago, P was half of Q's age. If the ratio of their present ages is 3:4, what will be the total of their present ages?
- A. 45
 - B. 40
 - C. 35
 - D. 30

15. P can lay railway track between two stations in 16 days. Q can do the same job in 12 days. With the help of R, they complete the job in 4 days. How many days does it take for R alone to complete the work?

- A. $9\frac{3}{5}$ days
- B. $9\frac{1}{5}$ days
- C. $9\frac{2}{5}$ days
- D. 10 days

PART II: Test of Reasoning Ability

16. How many times are the hands of a clock at right angle in a day?

- A. 22
- B. 24
- C. 44
- D. 48

17. Which is an ODD word of the following?

- A. book
- B. index
- C. glossary
- D. chapter

In the following questions 18 & 19, each pair has a certain relationship to each other followed by four pairs of related words. Select the correct pair which has the same relationship.

18. MUNDANE: SPIRITUAL

- A. common: ghostly
- B. worldly: unworldly
- C. routine: novel
- D. secular: clerical

19. OVERWEIGHT:DIETING

- A. poverty : sickness
- B. fatigue : resting
- C. gourmet : underweight
- D. drug : pain

20. Find the odd man out among the numbers 23, 27, 36, 52, 77, 111, 162.

- A. 52
- B. 111
- C. 27
- D. 77

21. A is son of C while C and Q are the sisters to one another. Z is the mother of Q. If P is the son of Z, Which one of the following statements is correct?

- A. Q is the grandfather of A
- B. P is the maternal Uncle of A
- C. P is the cousin of A
- D. Z is the cousin of B

22. *Statement:* The Company X has rejected first lot of valves supplied by Company A and has cancelled its entire huge order quoting use of inferior quality material and poor craftsmanship.

Courses of Action:

- I. The Company A needs to investigate functioning of its purchase, production and quality control departments.
- II. The Company A should inspect all the valves rejected by Company X.
- III. The Company A should inform Company X that steps have been taken for improvement and renegotiate schedule of supply.

- A. Only I and II follow
- B. Only I follows
- C. Only I and III follow
- D. Only II follows

23. *Statement:* India's economy is depending mainly on forests.

Conclusions:

- I. Trees should be preserved to improve Indian economy.
- II. India wants only maintenance of forests to improve economic conditions.

- A. Only conclusion I follows
- B. Neither I nor II follows
- C. I and II follow
- D. Only II follows

24. Study the following information to answer the given questions:

$P \$ Q$ means P is not smaller than Q

$P @ Q$ means P is neither smaller than nor equal to Q

$P \# Q$ means P is neither greater than nor equal to Q

$P \& Q$ means P is neither greater than nor smaller than Q

$P * Q$ means P is not greater than Q

Statements: $C \# P, P * L, L @ E, E \$ M$

Conclusions:

- I. $M \# P$
- II. $M @ L$
- III. $P \# E$
- IV. $L \# C$

- A. None is true
- B. Only I is true
- C. Only III is true
- D. Only IV is true

25. The calendar for the year 2007 will be the same for the year

- A. 2014
- B. 2016
- C. 2017
- D. 2018

26. Choose the word that is a necessary part of the underlined word.

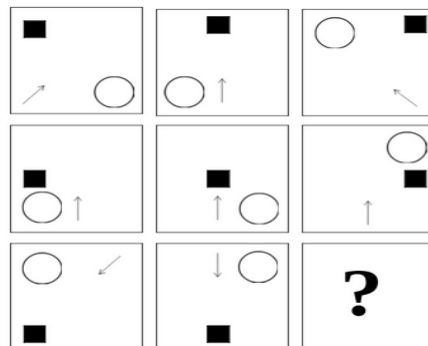
monopoly

- A. Corrupt
- B. Exclusive
- C. Rich
- D. Gigantic

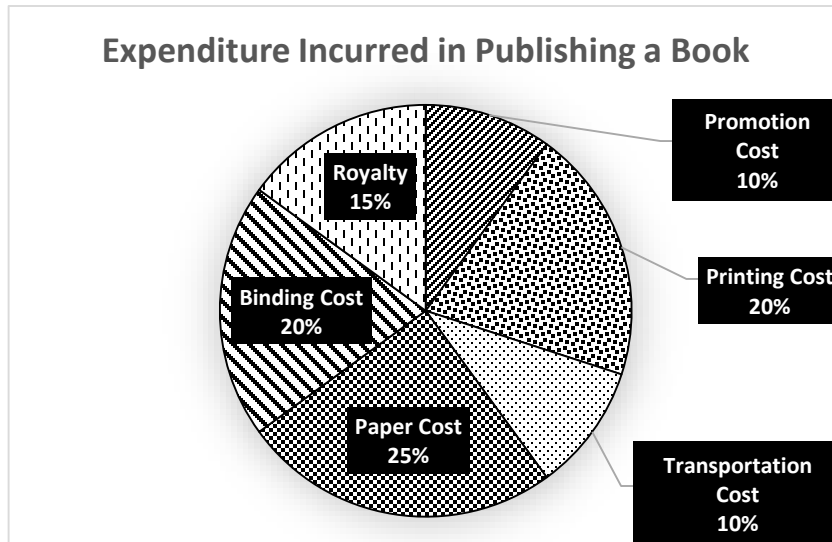
27. P, Q, R, S and T are five speakers who have to speak on a particular day, not necessarily in the same order. R is neither the first nor the last speaker. There are three speakers after S and three speakers ahead of T. If P speaks after Q, then who is the last speaker to speak?

- A. S
- B. T
- C. P
- D. Q

28. Identify the missing square.



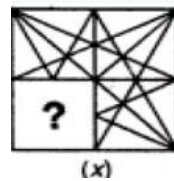
29. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the question based on it.



If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?

- A. Rs. 19,450
- B. Rs. 22,950
- C. Rs. 21,200
- D. Rs. 26,150

30. Select a figure from the four alternatives, which can be placed in the blank space of fig. (x).



- A.
- B.
- C.
- D.