## PRACTICE TEST PAPER NO. 8 Mathematical Ability

Q. 1-5. What will come in place of the question mark(?) in the following questions?

1. $25+125 \times 2=$ ?
(1) 375
(2) 30
(3) 6250
(4) 152
(5) None of these

2. $150 \%$ of $15+75 \%$ of $75=$ ?
(1) 78.75
(2) 75.75
(3) 281.25
(4) 135
(5) None of these
3. $\left(\left((2)^{4}\right)^{\frac{1}{2}}\right) ?=256$
(1) 8
(2) 6
(3) 4
(5) None of these

4. $4 \sqrt{10,000}=(100)^{?}$
(1) $\frac{1}{2}$
(2) 2
(3) $\frac{1}{4}$
(4) $\frac{1}{8}$
(5) None offhase
5. $-20<40 \times \frac{1}{5} \div \frac{30}{25}=$ ?
(1) $-\frac{20}{3}$
(2) $\frac{400}{3}$
(3) $-\frac{400}{9}$
(4) -192
(5) None of these
Q. 6-10. What will come in place of the question mark (?) in the following series?
6. $12 \quad 22 \quad 69 \quad 272 \quad 1365$ ?
(1) 8196
(2) 8184
(3) 8195
(4) 6830
(5) None of these
7. $1 \quad$ ? $27 \quad 64 \quad 125$
(1) 14
(2) 4
(3) 9
(4) 8
(5) None of these
8. $104 \quad 153 \quad 189 \quad 214$ ?
(1) 239
(2) 225
(3) 264
(4) 235
(5) None of these
9. $15 \quad 17 \quad 32 \quad 49 \quad 81 \quad 130 \quad$ ?
(1) 179
(2) 211
(3) 194
(4) 226
(5) None of these
$\begin{array}{llllll}10.15 & 17 & 21 & 29 & 45 & 77\end{array}$
(1) 109
(2) 125
(3) 141
(5) None of these
(4) 173
Q.11-15. From the following diferent committees are to be made as per the requirement given in each question?

In how many different ways can it be done?
10 men and 8 women out of which 5 men are teachers. 3 men doctors and 2 are businessmen. Among the womeen, 8 are teachers, 2 doctors, 2 researchers and 1 social worker.
11. A Committee of 5 in which 3 men and 2 women are there.
(1) 3360
(2) 8568
(3) 4284
(4) 1680
(5) None of these
12. ACOmmittee of 4 in which at least 2 women are there.
(1) 1260
(2) 1820
(3) 3060
(4) 1890
(5) None of these
13. A Committee of 5 in which 2 men teachers, 2 women teachers and 1 doctor are there.
(1) 75
(2) 150
(3) 214
(4) 20
(5) None of these
14. A Committee of 7.
(1) 31824
(2) 1200
(3) 9600
(4) 15912
(5) None of these
15. A Committee of 3 in which there is no teacher and no doctor.
(1) 100
(2) 120
(3) 10
(4) 12
(5) None of these

16-20. Study the following graph to answer the given questions.

## PER CENT RISE IN PRODUCTION OVER THE YEARS


16. For how many years is the per cent rise more than 100 ?
(1) One
(2) Two
(3) Five
(4) Three
(5) None of these
17. What is the average of the per cent rise over the given years?
(1) 110
(2) 105
(3) 100.5
(5) None of these

18. For how many years is theper eent rise lower than the average of the per cent rise over the given years?
(1) Two
(2) One
(3) Five
(4) Three
(5) None of these
19. For which of the given years is the per cent rise (from the previous year) in the per cent rise the least? (Years 2001 and 2003 not to be considered)
(1) 2000
(2) 2004
(3) 8006
(4) Cannot be determined
$4(5)$ None of these
20. If the production in 1998 was 10,000 units how much is the production in 2002 ?
(1) 35,280 units
(2) 64,680 units
(3) 46,200 units
(4) Cannot be determined
(5) None of these

## Q. 21-25. Study the following table to answer the given questions.

| Month <br> Price | January | March | May | July | September | November |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| More than Rs. 5,000/- | 50 | 106 | 2 | 30 | 25 |  |
| Rs. 4,000-Rs. 5,000 | 105 | 1000 | 40 | 105 | 400 | 315 |
| Rs. 3,000-Rs. 3,999 | 70 | 100 | 80 | 115 | 200 | '240 |
| Rs. 2,000-Rs. 2,999 | 300 | 500 | 100 | 216 | 135 | 300 |
| Rs. 1,000-Rs. 1,999 | 140 | 370 | 200 | 225 | 175 | 470 |
| Rs. 500-Rs. 999 | 200 | 700 | 15 | 400 | - 75 | 530 |
| Less than Rs 500 | 65 | 135 | 111 | 188 | $\xrightarrow{25}$ | 65 |
| 21. In which month w <br> (1) March <br> (3) July <br> (5) None of these | s maxim | numbe (2) N (4) S | books ember ember |  |  |  |

22. For which price range was maximum nunbelvof books bought for the given months together?
(1) Rs. 500-Rs 999
(2)Rs 2,000-Rs 2,999
(3) Rs $1,000-$ Rs 1,999
(4) Rs 3,000- Rs 3,999
(5) None of these
23. The books of price rangeRs 1,000- Rs 1,999 bought in January is what per cent of that of May?
(1) 30

(2) 70
(3) 142.86
(4) 60
(5) None of thípse
24. How muth is the difference in the number of books bought in September and Noyember?
(1) 444
(2) 776
(2) 1020
(4) 1310
(5) None of these
25. What is the respective ratio of books of Rs. 4,000- Rs 5,000 bought in January to that of March?
(1) $1: 10$
(2) $15: 100$
(3) $930: 2911$
(4) $21: 200$
(5) None of these

| Answers |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1. (5) | 6. (2) | 11. (1) | 16. (5) | 21. (1) |
| 2. (1) | 7. (4) | 12. (4) | 17. (4) | 22. (5) |
| 3. (3) | 8. (5) | 13. (2) | 18. (4) | 23. (2) |
| 4. (1) | 9. (2) | 14. (1) | 19. (3) | 24. (3) |
| 5. (5) | 10. (3) | 15. (3) | 20. (2) | 25. (4) |



