

- Q1.** If $5 : 4 :: 30 : x$, then the value of x is:
A 24 **B** 12 **C** 32 **D** 6
- Q2.** 12 men can finish a piece of work in 25 days. The number of days in which the same piece of work can be done by 20 men, is:
A 10 days. **B** 12 days. **C** 15 days. **D** 14 days.
- Q3.** The number of distinct prime factors of the largest 4-digit number is:
A 2 **B** 3 **C** 5 **D** 11
- Q4.** A and b are two co-primes. Which of the following is/ are true?
A $\text{LCM}(a, b) = a \times b$ **B** $\text{HCF}(a, b) = 1$
C Both (a) and (b). **D** Neither (a) nor (b).
- Q5.** Mark (✓) against the correct answer in the following:
A quadrilateral having two pairs of equal adjacent sides but unequal opposite sides is called a:
A Parallelogram **B** Rectangle **C** Trapezium **D** Kite
- Q6.** Mark the correct alternative in the following:
The difference between the greatest and smallest numbers which when rounded off a number to the nearest tens as 540, is:
A 10 **B** 9 **C** 8 **D** 10
- Q7.** The product of a whole number (other than zero) and its successor is:
A An even number. **B** An odd number. **C** Divisible by 4 **D** Divisible by 3
- Q8.** How many circles can be drawn to pass through three non-collinear points?
A 1 **B** 2 **C** 0 **D** As many as possible.
- Q9.** The product of the predecessor and successor of an odd natural number is always divisible by:
A 2 **B** 4 **C** 6 **D** 8
- Q10.** Mark the correct alternative in the following:
Three numbers are in the ratio $1 : 2 : 3$ and their HCF is 6, the numbers are:
A 4, 8, 12 **B** 5, 10, 15 **C** 6, 12, 18 **D** 10, 20, 30
- Q11.** Mark (✓) against the correct answer:
Which of the following is not meaningful?
A CI **B** CII **C** IC **D** XC
- Q12.** Mark the correct alternative in the following:
How many lakhs are there in one million?
A 100 **B** 10 **C** 1000 **D** None of these.
- Q13.** One million is equal to:
A 1 lakh **B** 10 lakh **C** 1 crore **D** 10 crore

- Q14.** In a division sum, we have dividend = 199, quotient = 16 and remainder = 7. The divisor is:
A 11 **B** 23 **C** 12 **D** None of these.
- Q15.** LCM of two numbers is 180. Then, which of the following is not the HCF of the numbers?
A 45 **B** 60 **C** 75 **D** 90
- Q16.** The HCF of two co-primes is:
A The smaller number. **B** The larger number. **C** Product of the numbers. **D** 1
- Q17.** Mark the correct alternative in the following:
 What least number be assigned to * so that the number 63576*2 is divisible by 8?
A 1 **B** 2 **C** 3 **D** 4
- Q18.** The number of faces of a triangular pyramid is:
A 3 **B** 4 **C** 6 **D** 8
- Q19.** Which of the following statements is not true?
A Both addition and multiplication are associative for whole numbers. **B** Zero is the identity for multiplication of whole numbers.
C Addition and multiplication both are commutative for whole numbers. **D** Multiplication is distributive over addition for whole numbers.
- Q20.** Mark (✓) against the correct answer in the following:
 The greatest number which divides 134 and 167 leaving 2 as remainder in each case is:
A 14 **B** 17 **C** 19 **D** 33
- Q21.** The largest 5-digit number having three different digits is:
A 98978 **B** 99897 **C** 99987 **D** 98799
- Q22.** Mark the correct alternative of the following:
 Which of the following fractions is the smallest?
 $\frac{1}{2}, \frac{3}{7}, \frac{3}{5}, \frac{4}{9}$
A $\frac{4}{9}$ **B** $\frac{3}{5}$ **C** $\frac{3}{7}$ **D** $\frac{1}{2}$
- Q23.** Mark (✓) against the correct answer in the following:
 If $57 : x :: 51 : 85$, then the value of x is:
A 95 **B** 76 **C** 114 **D** None of these.
- Q24.** Mark (✓) against the correct answer in the following.
 The ratio of boys and girls in a school is 12 : 5. If the number of girls is 840, the total strength of the school is:
A 1190 **B** 2380 **C** 2856 **D** 2142
- Q25.** Mark (✓) against the correct answer in the following.
 If a, b, c are in proportion then:
A $a^2 = bc$ **B** $b^2 = ac$ **C** $c^2 = ab$ **D** None of these.
- Q26.** Mark (✓) against the correct answer in the following:
 Which of the following numbers is divisible by 6?
A 8790432 **B** 98671402 **C** 85492014 **D** None of these.
- Q27.** Mark (✓) against the correct answer in the following:
 If a and b are co-primes, then their LCM is:
A 1 **B** $\frac{a}{b}$

C ab.

D None of these.

Q28. Mark (✓) against the correct answer in the following:

The HCF of two co-primes is:

A The smaller number.

B The larger number. **C** 1

D None of these.

Q29. Mark (✓) against the correct answer in the following:

Every counting number has an infinite number of:

A Factors.

B Multiples.

C Prime factors.

D None of these.

Q30. Mark (✓) against the correct answer in the following:

Three bells toll together at intervals of 9, 12, 15 minutes. If they start tolling together, after what time will they next toll together?

A 1 hour

B $1\frac{1}{2}$ hours

C $2\frac{1}{2}$ hours

D 3 hours

Q31. Mark (✓) against the correct answer in the following.

In a fort, 550 men had provisions for 28 days. How many days will it last for 700 men?

A 22 days

B $35\frac{7}{11}$

C 34 days

D None of these.

Q32. Mark (✓) against the correct answer in the following:

Which of the following has definite length?

A A line.

B A line segment.

C A ray.

D None of these.

Q33. Mark (✓) against the correct answer in the following:

Which of the following has no end points?

A A line segment.

B A ray.

C A line.

D None of these.

Q34. The angles of a quadrilateral are in ratio 3 : 4 : 5 : 6. The largest of these angles is:

A 90°

B 120°

C 150°

D 102°

Q35. Mark (✓) against the correct answer in the following:

No Roman numeral can be repeated more than _____ times.

A Two.

B Three.

C Four.

D None of these.

Q36. Mark (✓) against the correct answer in the following:

How many times does the digit 9 occur between 1 and 100?

A 11

B 15

C 18

D 20

Q37. Mark (✓) against the correct answer in the following:

Two numbers are in the ratio 3 : 5 and their sum is 96. The larger number is:

A 36

B 42

C 60

D 70

Q38. $|-|-7| - 3|$ is equal to:

A -7

B 7

C 10

D -10

Q39. The number of whole numbers between the smallest whole number and the greatest 2-digit number is:

A 88

B 98

C 99

D 101

Q40. Make the correct alternative in the following:

If n is an even number, then the product of its successor and predecessor

A Is an even natural number.

B Is an odd natural number.

C Can be even or odd.

D None of these.