

MM - 30

Time: - 1hr

**Choose the correct option from Q1 to Q5 (1 mark)**

1. The exact divisor of number 9 is:  
(a) 2 (b) 3 (c) 4 (d) 5
2. A number for which sum of all its factors is equal to twice number is called:  
(a) Perfect number (b) Even number (c) Odd number (d) Prime number
3. The greatest single digit prime number is  
(a) 5 (b) 3 (c) 9 (d) 7
4. Sum of any two odd numbers is always  
(a) odd number (b) prime number (c) even number (d) 1
5. The numbers which are multiples of 2 are  
(a) Twin Prime (b) Co – prime (c) Odd numbers (d) Even numbers

**Fill in the blanks from Q6 to Q15 (1 mark)**

6. The smallest factor of 856 is \_\_\_\_\_
7. The smallest multiple of 856 is \_\_\_\_\_
8. \_\_\_\_\_ is a factor of every number.
9. The factor of a prime number is \_\_\_\_\_ and \_\_\_\_\_
10. A number which has more than two factor is called \_\_\_\_\_
11. The smallest perfect number is \_\_\_\_\_
12. If a number ends with 0, it is divisible by \_\_\_\_\_
13. The sum of all the factors of a perfect number is equal to the \_\_\_\_\_.
14. \_\_\_\_\_ is neither prime nor composite.
15. A number is divisible by 6, if it is divisible by both \_\_\_\_\_ and \_\_\_\_\_

**Short Answer Questions (2 marks each) :**

16. Write two prime numbers whose sum is 100.
17. Write all the composite numbers between 30 and 50
18. Write all factors and first five multiples of 20.
19. Express 48 as the sum of two odd prime numbers.

**Long Answer Questions**

20. Three brands A, B and C of biscuits are available in packets of 12, 15 and 21 biscuits respectively. If a shopkeeper wants to buy an equal number of biscuits, of each brand, what is the minimum number of packets of each brand he should buy? 3 marks
21. A merchant has 120 litres of oil of one kind, 180 litres of another kind and 240 litres of a third kind. He wants to sell the oil by filling the three kinds of oil in tins of equal capacity. What should be the greatest capacity of such a tin? 4 marks