OBJECTIVE TYPE QUESTIONS

Mark the correct alternative in each of the following:

1. Which of the following numbers is a perfect number?
   (a) 4 (b) 12 (c) 8 (d) 6
2. Which of the following are not twin-primes?
   (a) 3, 5 (b) 5, 7 (c) 11, 13 (d) 17, 23
3. Which of the following are co-primes?
   (a) 8, 10 (b) 9, 10 (c) 6, 8 (d) 15, 18
4. Which of the following is a prime number?
   (a) 263 (b) 361 (c) 323 (d) 324
5. The number of primes between 90 and 100 is
   (a) 0 (b) 1 (c) 2 (d) 3
6. Which of the following numbers is a perfect number?
   (a) 16 (b) 8 (c) 24 (d) 28
7. Which of the following is a prime number?
   (a) 203 (b) 139 (c) 115 (d) 161
8. The total number of even prime numbers is
   (a) 0 (b) 1 (c) 2 (d) unlimited
9. Which one of the following is a prime number?
   (a) 161 (b) 221 (c) 373 (d) 437
10. The least prime is
    (a) 1 (b) 2 (c) 3 (d) 5
11. Which one of the following numbers is divisible by 3?
    (a) 27326 (b) 42356 (c) 73545 (d) 45326
12. Which of the following numbers is divisible by 4?
    (a) 8675231 (b) 9843212 (c) 1234567 (d) 543123
13. Which of the following numbers is divisible by 6?
    (a) 7908432 (b) 68719402 (c) 45982014 (d)
14. Which of the following numbers is divisible by 8?
    (a) 87653234 (b) 78956042 (c) 64298602 (d) 98741032
15. Which of the following numbers is divisible by 9?
    (a) 9076185 (b) 92106345 (c) 10349576 (d) 95103476

16. Which of the following numbers in divisible by 11?
(a) 1111111 (b) 22222222 (c) 3333333 (d) 4444444
17. If 1 * 548 is divisible by 3, then * can take the value
(a) 0 (b) 2 (c) 7 (d) 8
18. 5 * 2 is a three digit number with * as a missing digit. If the number is divisible by 6, the missing digit is
(a) 2 (b) 3 (c) 6 (d) 7
19. What least value should be given to * so that the number 6342 * 1 is divisible by 3?
(a) 0 (b) 1 (c) 2 (d) 3
20. What least value should be given to * so that the number 915 * 26 is divisible by 9?
(a) 1 (b) 4 (c) 2 (d) 6
21. What least value should be given to * so that the number 653 * 47 is divisible by 11?
(a) 1 (b) 2 (c) 6 (d) 9
22. What least number be assigned to * so that the number 63576 * 2 is divisible by 8?
(a) 1 (b) 2 (c) 3 (d) 4
23. Which one of the following numbers is exactly divisible by 11?
(a) 235641 (b) 245642 (c) 315624 (d) 415624
24. If 1 * 548 is divisible by 3, which of the following digits can replace*?
(a) 0 (b) 2 (c) 7 (d)
25. The sum of the prime numbers between 60 and 75 is
(a) 199 (b) 201 (c) 211 (d)
26. The HCF of two consecutive natural numbers is
(a) 0 (b) 1 (c) 2 (d) nonexistant
27. The HCF of two consecutive even numbers is
(a) 1 (b) 2 (c) 0 (d) nonexistant
28. The HCF of two consecutive odd numbers is
(a) 1 (b) 2 (c) 0 (d) non-existant
29. The HCF of an even number and an odd number is
(a) 1 (b) 2 (c) 0 (d) non-existant
30. The LCM of 24, 36 and 40 is
(a) 4 (b) 90 (c) 360 (d) 720
31. If x and y are two co-primes, then their LCM is
(a) xy (b) $x+y$ (c) $\frac{x}{y}$ (d) 1
32. If the HCF of two numbers is 16 and their product is 3072, then their LCM is
(a) 182 (b) 192 (c) 12 (d) None of these
33. The least number divisible by 15, 20, 24, 32 and 36 is
(a) 1440 (b) 1660 (c) 2880 (d) None of these
34. The smallest number which when diminished by 3 is divisible by 11, 28, 36 and 45, is
(a) 1257 (b) 1260 (c) 1263 (d) None of these
35. 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
36. The ratio of two numbers is 3 : 4 and their HCF is 4. Their LCM is
(a) 12 (b) 16 (c) 24 (d) 48

ANSWERS

1. (d) 2. (d) 3. (b) 4. (a) 5. (b) 6. (d) 7. (b) 8. (b) 9. (c) 10. (b) 11. (c)
12. (b) 13. (a) 14. (d) 15. (a) 16. (b) 17. (a) 18. (a) 19. (a) 20. (b) 21. (a) 22. (c)
23. (d) 24. (a) 25. (d) 26. (b) 27. (b) 28. (a) 29. (a) 30. (c) 31. (d) 32. (b) 33. (c)
34. (c) 35. (c) 36. (d)