

Add. 41-42A, Ashok Park Main, New Rohtak Road, New Delhi-110035 +91-9350679141

- (a) 0.96 m (b) 9.60 m
- (c) 19.20 m (d) 96 m
- **16.** Traffic lights at three different points are changing respectively at 24, 48 and 72 second. If alll the three are changed together at 9 : 10 : 24 hours, then when will the next changes take place together?
  - (a) 9:12:25 hrs. (b) 9:10:48 hrs.
  - (c) 9:12:48 hrs. (d) 9:12:40 hrs
- 17. A, B and C start at the same time in the same direction to run around a circular stadium. A completes one around in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they meet again at the starting point?
  - (a) 26 minutes 18 seconds
  - (b) 42 minutes 36 seconds
  - (c) 45 minutes
  - (d) 46 minutes 12 seconds
- **18.** A, B and C start at the same time in the same direction to run around a circular stadium of length 12 km and speeds 3 km/h, 4 km/h and 6 km/h respectively. After what time will they meet again at the starting point?
  - (a) 16 h (b) 12 h
  - (c) 24 h
- **19.** The smallest number from which if 7 subtracted, is exactly divisible by 2, 4, 3, 5, 6, 8 and 10 is-

(d) 28 h

(d) 137

(d) 39

- (a) 113 (b) 120
- (c) 127
- **20.** The smallest number from which if 8 added is exactly divisible by 10, 12, 15 and 20 is-

(a) 60
(b) 68
(c) 52
(d) 38

- 21. Which is the smallest number that can be subtracted from 1936 so that on being divided by 9, 10, 15 the remainder is 7 everytime?
  - (a) 93 (b) 46
  - (c) 76

- **22.** The smallest number that will divide 4, 6, 8, 12 and 16 leaving a remainder 2 in each case is-
  - (a) 46 (b) 50
  - (c) 48 (d) 56
- **23.** Find the greatest number that will divide 187, 233 and 279 so as to leave the same remainder in each case.
  - (a) 30 (b) 36
  - (c) 46 (d) 56
- 24. The numbers 2272 and 875 divided by a three digit number N, giving the same reaminder. The sum of the digits of N is-
  - (a) 13 (b) 10 (c) 14 (d) 11
- **25.** The numbers 1305, 4665 and 6905 divided by a four digit number N, giving the same remainder. The sum of the digits of N is-

| (a) 4 | (b) 5 |
|-------|-------|
| (c) 6 | (d) 8 |

- **26.** The greatest number which can divide 110 and 128 leaving the same remainder 2 in each case, is-
  - (a) 8 (b) 18
  - (c) 28 (d) 38
- **27.** The greatest number which can dividing 122 and 243 leaves remainders 2 and 3 respectively, is-
  - (a) 12(b) 24(c) 30(d) 120
- **28.** The greatest number which on dividing 989 and 1327 leaves remainders 5 and 7 respectively, is-

| (a) 8 | (b) 53 |
|-------|--------|
|       |        |

- (c) 24 (d) 32
- **29.** The least number, which when divided by 12, 15 and 16 leaves 7, 10 and 11 as remainders respectively, is-

| (a) 115 | (b) 235 |
|---------|---------|
| (c) 247 | (d) 475 |

- **30.** The least number, which when divided by 5, 6, 7 and 8 leaves a remainders 3, but divided by 9 leaves
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|   | no remainder, i  | S-  |     | (c) 8 and 6   | (d) 8 and 10   |  |  |
|---|--|---|-----|---|--|--|--|
|   | (a) 1677   | (b) 1683  | 39. | The L.C.M of two numbers is 45 times the  |  |  |  |
|   | (c) 2523   | c) 2523 (d) 3363  |     | H.C.F. If one of the numbers is 125 and the sum of H.C.F. and L.C. M is 1150, the other number                    |  |  |  |
| 31.   | The least number, which when divided by 20, 25, 35 and 40 leaves remainder 14, 19, 29 and 34           |   |     | of H.C.F and L.C. M is 1150, the other number is-   |  |  |  |
|   | respectively, is-  |   |     | (a) 215   | (b) 220  |  |  |
|   | (a) 1400   | (b) 1394  |     | (c) 225   | (d) 235  |  |  |
|   | (c) 1406   | (d) 1388  | 40. |   | prime numbers is 117. Their                              |  |  |
| 32.   | Find the largest number of five digits exactly divisible by 12, 16, 18, 24, 32.                        |   |     | L.C.M should be-<br>(a) 1 (b) 117   |  |  |  |
|   | (a) 99936  | (b) 99963   |     | (c) equal to HCF  |  |  |  |
|   | (c) 99972  | (d) 99982   |     | (d) cannot bo calcul  | lated  |  |  |
| 33.   |  | est number of five digits exactly   | 41. |   | e different numbers is 120.<br>ving cannot be their HCF? |  |  |
|   | (a) 10432  | (b) 10368   |     | (a) 8   | (b) 12   |  |  |
|   | (a) 10452<br>(c) 10064   | (d) 10054   |     | (c) 24  | (d) 35   |  |  |
| 34  |  |   | 42. | The H.C.F. of two   | numbers is 8. Which one the                              |  |  |
| 54.   | 4. Find largest four-digit number which when divided by 12, 18, 21 and 24 leaves a remainder of 6 in   |   |     | following can never be their LCM?   |  |  |  |
|   | each case, is-   |   |     | (a) 24  | (b) 48   |  |  |
|   | (a) 9582   | (b) 9423  |     | (c) 56  | (d) 60   |  |  |
|   | (c) 9986   | (d) 9982  | 43. | H.C.F. of 3240, 360   | 0 and a third number is 36 and                           |  |  |
| 35.   |  | vo numbers is 1296 and HCF is 96.<br>Imbers is 864 <mark>then th</mark> e other is-                 |     | their LCM is $2^4 \times 3^5 \times 5^2 \times 7^2$ . The third number is-  |  |  |  |
|   | (a) 72   | (b) 64  |     | (a) $2^2 \times 3^5 \times 7^2$   | (b) $2^2 \times 5^3 \times 7^2$                          |  |  |
|   | (c) 144  | (d) 3 <mark>6</mark>  |     |   | (d) $2^3 \times 3^5 \times 7^2$                          |  |  |
| 36.   | The H.C.F. of two numbers is 11 and their LCM is 7700. If one of the number is 275, then the other is: |   |     | (c) $2^5 \times 5^2 \times 7^2$ (d) $2^3 \times 3^5 \times 7^2$<br>The sum of two numbers is 216 and their HCF is |  |  |  |
|   |  |   |     | 27. The nubers are:   |  |  |  |
|   | (a) 279  | (b)283  |     | (a) 27, 189   | (b) 108, 108   |  |  |
|   | (c) 308  | (d) 318   |     | (c) 200, 16   | (d) 100, 116   |  |  |
| 37.   |  | The L.C.M of two numbers is 495 and their H.C.F<br>s 5. If the sum of the number is 100, then their |     | The ratio of two numbers is 3:4 and their HCF is 4. The numbers are-  |  |  |  |
|   | difference is-   |   |     | (a) 9, 12   | (b) 12, 16   |  |  |
|   | (a) 10   | (b) 46  |     | (c) 16, 18  | (d) 20, 24   |  |  |
|   | (c) 70   | (d) 90  | 46. | The ratio of two nur  | mbers is 4:5 and their HCF is                            |  |  |
| 38.   | The product of the L.C.M and H.C.F of two  |   |     | 2. The LCM is-  |  |  |  |
|   | numbers is 24. The difference of two numbers is 2. Find the numbers-                                   |   |     | (a) 20  | (b) 10   |  |  |
|   | (a) 2 and 4  | (b) 6 and 4   |     | (c) 40  | (d) 60   |  |  |
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| 47. | The ratio of two numbers is 2:3 and their LCM is 48. The number are- |            |  | The sum of two numbers is 36 and their HC<br>How many number of pairs may be possib             |          |  |  |  |
|-----|--|------------|--|---|----------|--|--|--|
|     | (a) 16, 24   | (b) 8, 6   |  | (a) 1   | (b) 2    |  |  |  |
|     | (c) 12, 18   | (d) 12, 24 |  | (c) 3   | (d) 4    |  |  |  |
| 48. | The ratio of two numbers is 3:2 and their LCM is 72. Their HCF is-   |            |  | A number when divided by 10 leaves a remainder<br>9, when divided by 9 leaves a remainder of 8, |          |  |  |  |
|     | (a) 24   | (b) 3      |  | when divided by 8 leaves a remainder of   |          |  |  |  |
|     | (c) 6  | (d) 12     |  | 7, When divided by 2 leaves a remainder of 1. Find the number                                   |          |  |  |  |
|     |  |            |  | (a) 31  | (b) 1029 |  |  |  |

(c) 2519 (d) 1679

## ANSWERS

|    |     |     |     |     | -   |     | 7   |     | î   |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1. | (d) | 10. | (b) | 19. | (c) | 28. | (c) | 37. | (a) | 46. | (c) |
| 2. | (c) | 11. | (a) | 20. | (c) | 29. | (b) | 38. | (b) | 47. | (a) |
| 3. | (a) | 12. | (a) | 21. | (d) | 30. | (b) | 39. | (c) | 48. | (a) |
| 4. | (c) | 13. | (b) | 22. | (b) | 31. | (b) | 40. | (b) | 49. | (c) |
| 5. | (a) | 14. | (c) | 23. | (c) | 32. | (a) | 41. | (d) | 50. | (c) |
| 6. | (b) | 15. | (b) | 24. | (b) | 33. | (b) | 42. | (d) |     |     |
| 7. | (c) | 16. | (c) | 25. | (a) | 34. | (a) | 43. | (a) |     |     |
| 8. | (d) | 17. | (d) | 26. | (b) | 35. | (c) | 44. | (a) |     |     |
| 9. | (c) | 18. | (b) | 27. | (d) | 36. | (c) | 45. | (b) |     |     |



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