**Number System-1**

**Basic Numbers**

**1**. What is the place value of 7 in the numeral 2734?

A. 70 B. 7 C. 700 D. 7.00

**2.** Find the product of the local value and absolute value of 4 in 564823

A. 1600 B. 8000 C. 16000 D. 12000

**3.** Find the product of the place value and face value of 3 in 5769354

A. 900 B. 9000 C. 90 D. 9

**4.** Find the product of the local value and absolute value of 4 in 23468

A. 400 B. 1600 C. 1200 D. 80

**5.** The sum of first 10 natural numbers is

A. 40 B. 45 C. 50 D. 55

**6.** The sum of the squares of the first 10 natural numbers is

A. 300 B. 285 C. 200 D. 385

**7.** The sum of the cubes of the first 10 natural numbers is

A. 3025 B. 3000 C. 2075 D.2025

**8.** The sum of the first 10 even natural numbers is

A.100 B. 110 C. 120 D. 125

**9.** The sum of the first 24 odd natural numbers is

A. 479 B. 745 C. 579 D. 576

**10.** Find the sum of first 70 odd numbers

A. 4900 B. 4970 C. 4990 D. 4980

**11.** Find the sum of all odd number up to 250.

A. 15345 B. 15645 C. 15625 D. 15342

**12.** In a division, dividend is 689, divisor is 36 and quotient is 19. Find the remainder.

A. 4 B. 3 C. 2 D. 5

**13.** When a number divided by 288, the remainder is 47. Find the remainder when the same number is divided by 24.

A. 24 B. 21 C. 23 D. 25

**14.** In a division sum, the divisor is 5 times the quotient and two times the remainder. If the remainder is 40, then the dividend is

A. 1320 B. 1380 C. 1395 D. None of these

**15.** A number when divided by a divisor leaves a remainder of 24.

When twice the original number is divided by the same divisor, the remainder is 11. What is the value of the divisor?

A. 13 B. 59 C. 35 D. 37

**16.** A number when divided by 342 gives a remainder 47. When the same number is divided by 19, what would be the remainder?

A. 5 B. 9 C. 4 D. 0

**17.** When 242 is divided by a certain divisor the remainder obtained is 8. When 698 is divided by the same divisor the remainder obtained is 9. However, when the sum of the two numbers 242 and 698 is divided by the divisor, the remainder obtained is 4.

What is the value of the divisor?

A. 11 B. 17 C. 13 D. 23

**Factors**

**18.** If N=x, M=×3×5, then find the number of factors of N that are common with the factors of M.

A. 8 B. 6 C. 18 D. 20

**19.** Find the number of total factors, even factors and odd factors of 1200 respectively.

A. 30, 24, 6 B. 30, 6, 24 C. 24, 12 , 6 D. 30, 12, 6

**20.** Find the number of factors of 8085?

A. 16 B. 18 C. 22 D. 24

**21.** Find the sum and product of all the factors 180 respectively.

A. 546, B. 546, C. 532, D. 532,

**22.** Find the sum and the product of all factors of 8085?

A. 16416, B. 537711, C. 16614, D. 16614,

**LCM HCF**

**23.** Find the HCF and LCM of, and respectively.

A. , B. , C. , D.,

**24.** The HCF of two numbers is 7 and their LCM is 15. Find the product of the numbers

A. 105 B. 90 C. 150 D. cannot be determined

**25.** Two numbers are in the ratio 5:8 and their H.C.F is 4. Find the numbers.

A. 25 and 40 B. 20 and 32 C. 30 and 48 D. 15 and 24

**26.** If the sum of two numbers is 55 and the HCF & LCM of these two numbers are 5 and 120 respectively, then the sum of reciprocals of the numbers will be

A. 55/601 B. 601/55 C. 11/120 D. 120/11

**27.** Find the greatest possible length which can be used to measure exactly the lengths 4m 95cm, 9 m and 16 m 65 cm.

A. 45 cm B. 44 cm C. 43 cm D. 42 cm

**28.** What is the second smallest number which when increased by 7 is completely divisible by 8, 11 and 24?

A. 535 B. 528 C. 521 D. 257

**29.** L.C.M of two numbers = . How many possible values of b exist?

A. 21 B. 20 C. 22 D. 0

**30.** If L.C.M of different two numbers is 91. How many pairs of these two numbers exist?

A. 2 B. 3 C. 4 D. 5

**31.** The sum of two numbers is 136 and their HCF is 17. The numbers of pairs of such numbers satisfying the given condition is

A. 2 B. 4 C. 6 D. 8

**32.** Find the greatest number of the five digits which is exactly divisible by 16, 25, 28 and 32.

A. 95200 B. 99550 C. 999560 D. 99200

**33.** IBM-Daksh observes that it gets a call at an interval of every 10 minutes from Seattle, at every 12 minutes from Arizonia, at the interval of 20 minutes from New York and after every 25 minutes it gets the call from Newark. If in the early morning at 5:00 a.m. it has received the calls simultaneously from all the four destinations, then at which time it will receive the calls at a time from all places on the same day?

A. 10:00 am B. 3:00 am C. 5:00 am D. Both (A) and (B)

**34.** Three lights change after 48, 72 and 108 seconds. At 9:20:00 they all changed together. At what time will again change together 3rd time?

A. 9:41:36 B. 9:41:00 C. 9:40:36 D. 9:20:24

**35.** At world trade center, a meeting was organized by USA. USA invited 4 countries India, Russia, China and Japan in the meeting. There were 36, 72, 81 and 108 members respectively attended the meeting from the above 4 countries. At the time of dinner the seating arrangement is such that only the members of same country are allowed at one dining table. The number of members in each table should be same. What is the minimum number of tables should be arranged to meet all these conditions?

A. 32 B. 33 C. 40 D. 432

**36.** Three gold coins of weight 780gm, 840gm and 960gm are cut into small pieces, all of which have the equal weight. Each piece must be heavy as possible. If one such piece is shared by two persons, then how many persons are needed to give all the pieces of gold coins?

A. 86 B. 70 C. 43 D. 35

**37.** A teacher when distributed certain number of chocolates to 4 children, 5 children, 7 children, he always left with 1 chocolate. Find the least number of chocolates the teacher brought to the class.

A. 140 B. 141 C. 280 D. 281

**38.** Find the greatest number, which will divide 260, 281 and 303, leaving 7, 5 and 4 as remainders respectively.

A. 30 B. 32 C. 34 D. 23

**39.** Find the greatest number by which if we divide 740, 838 and 985, then in each case the remainder is the same.

A. 29 B. 27 C. 49 D. 37

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| 1.C | 2.C | 3.A | 4. B | 5.D | 6.D | 7.A | 8.B | 9.D | 10.A | 11.C | 12.D | 13.C |
| 14.A | 15.D | 16.B | 17.C | 18.B | 19.A | 20.D | 21.B | 22.A | 23.A | 24.A | 25.B | 26.C |
| 27.A | 28.C | 29.C | 30.C | 31.A | 32.A | 33.D | 34.A | 35.B | 36.A | 37.B | 38.D | 39.C |