D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS)
APTITUDE TEST

HCF AND LCM – TEST 26

1. Four different electronic devices make a beep after every 30 minutes, 1 hour, 1 hour 30 minutes and 1 hour 45 minutes respectively. All the device beeped together at 12 noon. They will again beep together at

a) 3:00 AM b) 12 Midnight
c) 6:00 AM d) 9:00 AM

2. What is the LCM of $(6x^3 + 60x^2 + 150x)$ and $(3xâ\square' + 12x^3 - 15x^2)$?

a) $6x^2(x + 5)^2(x - 1)$ b) $3x^2(x + 5)^2(x - 1)$
c) $6x^2(x + 5)^2(x - 1)^2$ d) $3x^2(x + 5)(x - 1)^2$

3. On dividing a number by 4, the remainder is 2. The quotient so obtained when divided by 5, leaves the remainder 3. Now the quotient so obtained when divided by 6, leaves the remainder 5. The last quotient is 7. The number was

a) 962 b) 954
c) 946 d) 938

4. The HCF and LCM of two numbers are 8 and 48 respectively. If one of the numbers is24, then the other number is

a) 48 b) 36
c) 24 d) 16

5. HCF of 2/3, 4/5 and 6/7 is

a) 48/105 b) 24/105
c) 16/105 d) 24/105

6. What is the LCM of 120 and 450?

a) 2400 b) 1800
c) 3600 d) 4800

7. Two numbers are in the ratio 3 : 4. If their LCM is 240, the smaller of the two number is

a) 100 b) 80
c) 60 d) 50

8. The length, breadth and height of a room are 363m, 528m and 693m respectively. Determine the longest tape that can measure the three dimensions of the room exactly.

a) 33 metre b) 35 metre
c) 27 metre d) 30 metre

9. The product of two numbers is 35828 and their HCF is 26. Find their LCM.

a) 931788 b) 689
c) 1378 d) 3583

10. Find the highest common factor of 72 and 168.

a) 12 b) 24
c) 6 d) 63

11. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together ?

a) 4 b) 10
c) 15 d) 16

12. Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case. Then sum of the digits in N is:

a) 5 b) 4
c) 6 d) 8

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13. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:
a) 9000 b) 9400
c) 9600 d) 9800

14. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:
a) 101 b) 107
c) 111 d) 185

15. The G.C.D. of 1.08, 0.36 and 0.9 is:
a) 0.03 b) 0.9
c) 0.18 d) 0.108

16. The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the other is:
a) 279 b) 283
c) 308 d) 318

17. What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30 ?
a) 196 b) 630
c) 1260 d) 2520

18. 252 can be expressed as a product of primes as:
a) 2 x 2 x 3 x 3 x 7 b) 2 x 2 x 2 x 3 x 7
c) 3 x 3 x 3 x 3 x 7 d) 2 x 3 x 3 x 3 x 7

19. The greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively, is:
a) 123 b) 127
c) 235 d) 305

20. The L.C.M. of two numbers is 48. The numbers are in the ratio 2 : 3. Then sum of the number is:
a) 28 b) 32
c) 40 d) 64

21. The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:
a) 544 b) 548
c) 504 d) 536

22. Two numbers are in the ratio of 15:11. If their H.C.F. is 13, find the numbers
a) 122 and 80 b) 87 and 190
c) 195 and 143 d) None of these

23. Find the largest number of four digits exactly divisible by 12,15,18 and 27
a) 5500 b) 9000
c) 7300 d) 9720

24. Find the greatest number that will divide 400, 435 and 541 leaving 9, 10 and 14 as remainders respectively
a) 19 b) 17
c) 13 d) 9

25. If LCM of two number is 693, HCF of two numbers is 11 and one number is 99, then find other
a) 34 b) 77
c) 12 d) 45