NUMBER SYSTEM-3_CSAT_QUESTIONS

1. **LCM of $\frac{2}{3}, \frac{4}{9}, \frac{5}{6}$ is:**

   (A) $\frac{8}{27}$

   (B) $\frac{20}{3}$

   (C) $\frac{10}{3}$

   (D) $\frac{20}{27}$

2. **The LCM of two numbers is 1820 and their HCF is 26. If one number is 130 then the other number is**

   (A) 70
   (B) 1690
   (C) 364
   (D) 1264

3. **The LCM of two numbers x and y is 204 times their HCF. If their HCF is 12 and the difference between the numbers is 60, then find (x + y).**

   (A) 660
   (B) 426
   (C) 852
   (D) 348

4. **The product of two numbers is 6760 and their HCF is 13. How much such pair of numbers can be formed?**

   (A) 2
   (B) 3
   (C) 1
   (D) 4

5. **What is the sum of digits of the least number which when divided by 15, 18 and 24 leaves the remainder 8 in each case and is also divisible by 13?**

   (A) 18
   (B) 17
   (C) 15
   (D) 16

6. **Find the greatest 4-digit number exactly divisible by each of 12, 15, 18 and 27.**

   (A) 9990
   (B) 9960
   (C) 9720
   (D) 9740

7. **The least number of 6-digit which when divide by 15, 25, 35, 42 and 70 respectively, leave the remainder 11, 21, 31, 38 and 66 respectively?**

   (A) 100796
   (B) 100386
   (C) 100256
   (D) 101046

8. **The maximum number of students among whom 1001 pens and 910 pencils can be distributed in such a way that each students gets same number of pens and same number of pencils is:**

   (A) 910
   (B) 1001
   (C) 1911
   (D) 91

9. **What will be the remainder of $\frac{121+93}{8}$?**

   (A) 6

   (B) 10

   (C) 8

   (D) 4

10. **What will be the remainder when $(35)^{37}$ is divided by 9?**

    (A) 8
    (B) 1
    (C) 9
    (D) 7

11. Find the remainder when 1! + 2! + 3! + ... + 100! is divided by 6.
(A) 0
(B) 5
(C) 8
(D) 3

12. What will be the remainder when 7^{40} is divided by 400?
(A) 9
(B) 7
(C) 1
(D) 3

13. When x is divided by 6, the remainder obtained is 3. What will be the remainder when $(x^4 + x^3 + x^2 + x + 1)$ is divided by 6.
(A) 0
(B) 1
(C) -1
(D) 2

14. A number, x when divided by 7 and 9 leaves remainder 3 and 6 respectively. Find the reminder if the same number is divided by 63.
(A) 45
(B) 48
(C) 57
(D) 11

15. Find the sum of all factors of 240 which are multiple of 5.
(A) 310
(B) 620
(C) 340
(D) 640

16. Find the number of odd factors of $30^{16} \times 16^{18} \times 20^{21}$.
(A) 323
(B) 646
(C) 389
(D) 676

17. Find the sum of even factors of 100.
(A) 186
(B) 31
(C) 217
(D) 156

18. In how many ways can you express 216 as a product of two of its factors?
(A) 4
(B) 6
(C) 10
(D) 8

19. Find the sum of odd factors of 720.
(A) 64
(B) 78
(C) 80
(D) 60

20. Find the prime factors of 210.
(A) 2
(B) 3
(C) 4
(D) 5