Number System-1

1. Find the unit digit of the number $(73)^{98} + (39)^{87} + (76)^{99}$

(a) 1 **(b) 2**

(c) 3 **(d) 4** **(e) N. O. T**

2. Find the unit place digit of the number $7^{37} \times 38^{54} \times 817^{93} \times 777^{777}$

(a) 1 **(b) 2**

(c) 5 **(d) 6** **(e) N. O. T**

3. Find the unit digit of the number $817^{938} + 776^{532} + 985^{67} + 813^{353}$

(a) 3 **(b) 2**

(c) 6 **(d) 4** **(e) N. O. T**

4. Find the digit of the number $367^{98} \times 53^{687} \times 134^{134} \times 59^{167}$

(a) 2 **(b) 3**

(c) 9 **(d) 8** **(e) N. O. T**

5. Find the unit digit of the number $532^{375} + 819^{532} + 877^{77} + 985^{352} - 112^{18}$

(a) 6 **(b) 7**

(c) 8 **(d) 9** **(e) N. O. T**

6. Find the unit digit of the number $23^{444} - 989^{989} - 548^{179} + 344^{345}$

(a) 2 **(b) 3**

(c) 4 **(d) 6** **(e) N. O. T**

7. Find the unit digit of the number $(3.54)^{345} + (9.99)^{999} + (64.4)^{44}$

(a) 2 **(b) 0**

(c) 3 **(d) can not determine** **(e) 7**

8. Find the unit digit of the number $2222^{2222^{2222^{2222}}} + 3333^{3333^{3333^{3333}}}$

(a) 8 **(b) 9**

(c) 7 **(d) 6** **(e) N. O. T**

9. When 69^{67} is divided by 68 then what is the remainder

(a) 0 **(b) 1**

(c) 66 **(d) 67** **(e) N. O. T**

10. If 17^{200} is divided by 18, then remainder will be

(a) 17 **(b) 18**

(c) 1 **(d) 0** **(e) N. O. T**

11. If 192^{193} is divided by 193, then remainder is

(a) 192 **(b) 193**

(c) 1 **(d) 0** **(e) N. O. T**

12. If 39^{119} is divided by 40 then remainder is

(a) 40 **(b) 39**

(c) 38 **(d) -1** **(e) N. O. T**

13. If $(67^{67} + 67)$ is divided by 68 then remainder is

(a) 66 **(b) 67**

(c) 68 **(d) 1** **(e) N. O. T**

14. If $(168^{169} + 5)$ is divided by 169 then remainder is

(a) 2 **(b) 3**

(c) 4 **(d) 8** **(e) N. O. T**

15. Find the remainder if 3^{90} is divisible by 28

(a) 1 **(b) 2**

(c) 3 **(d) 4** **(e) N. O. T**

16. What will be remainder if 2^{31} is divided by 5

(a) 2 **(b) 4**

(c) 3 **(d) 7** **(e) N. O. T**

17. When $(17^{37} + 29^{37})$ is divided by 23 then remainder will

(a) 0 **(b) 1**

(c) 2 **(d) 3** **(e) N. O. T**

18. Find the number of Zeroes in the product $1\times2\times3\times4\times\ldots\ldots\times100$

(a) 30 **(b) 24**

(c) 25 **(d) 26** **(e) N. O. T**

19. Find the number of zeroes in the product $1\times2\times3\times4\times5\times6\times\ldots\ldots\ldots\times273$

(a) 64 **(b) 66**

(c) 68 **(d) 70** **(e) N. O. T**

20. Find the number of zeroes in the product $10\times20\times30\times40\times\ldots\ldots\times1000$

(a) 125 **(b) 124**

(c) 126 **(d) 130** **(e) N. O. T**

21. Find the number of zeroes in the product $25\times75\times95\times135\times37\times93\times64$

(a) 5 **(b)** 6

(c) 7 **(d) 8** **(e) N. O. T**

22. Find the number of zeroes in the product $222^{333} \times 555^{666}$

(a) 666 **(b) 444**

(c) 333 **(d) 777** **(e) N. O. T**

23. Find the number of zeroes in the product $27\,! \times 397\,! \times 435\,!$

(a) 110 **(b) 115**

(c) 210 **(d) 215** **(e) N. O. T**

24. $3^{25} + 3^{26} + 3^{27} + 3^{28}$ is divisible by

(a) 11 **(b) 16**

(c) 25 **(d) 30** **(e) N. O. T**

25. $4^{61} + 4^{62} + 4^{63} + 4^{64}$ is divisible by

(a) 3 **(b) 11**

(c) 13 **(d) 17** **(e) N. O.**