1) Which number should be subtracted from 876905. So that it can be divisible by 8?
   A. 1
   B. 2
   C. 3
   D. 4

2) The number 456*85 is completely divisible by 3. Smallest whole digit number in place of * can be?
   A. 0
   B. 1
   C. 2
   D. 3

3) The number 673 and 865 is divisible by which of the following leaving a remainder 1 ?
   A. 1
   B. 2
   C. 3
   D. 4
   E. 2, 3 and 4

4) A three digit number 4A3 is added to another three digit number 984 which result in four digit number 13B7. This four digit number is divisible by 11. What is the value of A+B?
   A. 8
   B. 9
   C. 10
   D. 11

5) What are the largest four digit and the smallest three digit numbers divisible by 6, 15, 21 and 24?
   A. 9235 and 420
   B. 9980 and 840
   C. 9240 and 840
   D. 9999 and 999

6) If abc4d is divisible by 4, what can not be the value of d?
   A. 0
   B. 4
   C. 8
   D. 2

7) The sum of the digits of a three digit number is subtracted from the number. The resulting number is divisible by ……..
   A. 6
   B. 9
   C. Both 6 and 9
   D. All 3, 6 and 9

8) Find the place value of 2 and 7 for the following numbers:
   i. 29975
   ii. 8627
   iii. 28467
   iv. 720000

9) Find the sum and product of the place value and face value of 6 in the number 86245.
   A. 6006 & 36000
   B. 6012 & 3600
   C. 606 & 36000
   D. 6006 & 360000

10) The difference between the local value and the face value of 7 in the numeral 32675149 is
   A. 69993
   B. 6993
   C. 0
   D. None of these

11) What least number must be added to 2010 to obtain a number which is completely divisible by 19?
   A. 5
   B. 4
   C. 3
   D. 2

12) On dividing 12401 by a certain number, we get 76 as quotient and 13 as remainder. What is the divisor?
   A. 16
   B. 163
   C. 169
   D. 136

13) A number when divided by the sum of 625 and 515 gives a quotient that is 5 times the difference between 625 and 515 and remainder is zero. What is the number?
A. 632500
B. 627000
C. 617500
D. 642000

14) If the difference of two numbers is 8 and the difference of their squares is 160, then the numbers are
A. 18,10
B. 8,16
C. 6,14
D. None of these

15) For the smallest number that should be multiplied with 54000 to make it a perfect cube?
A. 4
B. 27
C. 5
D. 3

16) By what number should be 86700 divided to make it perfect square?
A. 2
B. 6
C. 4
D. 3

17) Find the LCM of $2^2x3^3x5x7^2$, $2^3x3^2x5^2x7^4$, $2x3x5^3x7x11$
A. $2^2x3^2x5^2x7^3x11$
B. $2^3x3^3x5^3x7^4x11$
C. $2^4x3x5^2x7^2x11^2$
D. $2^3x3^3x5^3x7^4x11^2$

18) Find the HCF of $2^3x3^2x5x7^4$, $2^2x3^5x5^2x7^3$, $2^3x5^3x7^2$
A. 640
B. 980
C. 890
D. 460

19) The LCM of 2^3x3^2x5x11, $2^4x3^4x5^2x7$ and $2^5x3^3x5^3x7^2x11$ is ….

A. 2^3x3^2x5
B. $2^5x3^4x5^3x7^2x11$
C. $2^5x3^4x5^3$
D. $2^3x3^2x5x7x11$

20) The HCF of $\frac{9}{10}$, $\frac{12}{25}$, $\frac{18}{35}$ and $\frac{21}{40}$

A. $\frac{3}{5}$
B. $\frac{3}{1400}$
C. $\frac{252}{5}$
D. $\frac{63}{700}$

21) The LCM of $\frac{2}{3}$, $\frac{3}{5}$, $\frac{4}{7}$ and $\frac{9}{13}$ is

A. $\frac{1}{36}$
B. 36
C. $\frac{1}{1365}$
D. $\frac{12}{455}$

22) Find the HCF and LCM of $\frac{2}{3}$, $\frac{8}{9}$, $\frac{16}{81}$ and $\frac{10}{27}$

A. $\frac{80}{3}$ and $\frac{2}{81}$
B. $\frac{2}{81}$ and $\frac{80}{3}$
C. $\frac{2}{80}$ and $\frac{2}{81}$
D. None of these

23) The greatest possible length which can be used to measure exactly the lengths 7m, 3m 85cm, 12m 95cm is:

A. 15cm
B. 35cm
C. 42cm
D. 25cm

24) Three different containers contain 496 litres, 403 litres and 713 litres of mixtures of milk and water respectively. What biggest measure can measure all the different quantities exactly?
A. 7 litres
B. 31 litres
C. 41 litres
D. None of these

25) 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. 16
C. 15
D. 10

26) A, B and C start at the same time in the same direction to run around a circular stadium. A complete a round 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. 26m. 18s
B. 46m. 12s
C. 45m
D. 42m 36s

27) The smallest fraction, which each of $\frac{6}{7}$, $\frac{5}{14}$, $\frac{10}{21}$ will divide exactly, is:
A. $\frac{9}{13}$
B. $\frac{30}{7}$
C. $\frac{30}{98}$
D. $\frac{95}{123}$

28) Find square root of the following numbers:
A. 2704
B. 2916
C. 5929
D. 8100
E. 3969
F. 7225
G. 6724

29) Find the cube root of the following numbers:
   A. 19683
   B. 42875
   C. 97336
   D. 753571
   E. 830584
   F. 456533
   G. 300763

30) Find the perfect square of the following numbers:
   A. 24
   B. 42
   C. 33
   D. 56
   E. 78
   F. 96

31) Find the unit place of 1768^{1293}

32) Find the unit digit of 432^{412} x 499^{431}

33) Find the unit digit of [(25^{43} x 56^{42}) + 456^{25} + 23^{42} + 76^{23}]

34) Find the unit digit in 1! + 2! + 3! + 4! + …….. + 50!

35) If X = 164^{169} + 333^{337} - 727^{726}, then what is the unit digit of X?

36) If a number is divided by 527, the remainder is 42. What will be the remainder if it is divided by 17?

37) A number when divided by 114, leaves remainder 21. If the same number is divided by 19, then the remainder will be….

38) A number, when divided by 136, leaves remainder 36. If the same number is divided by 17, the remainder will be……

39) What will be the remainder 17^{21} is divided by 16?

40) What will be the remainder 29^{75} is divided by 30?

41) What will be the remainder 25^{24} is divided by 26?

42) What will be the remainder when 29^{36} is divided by 28?

43) What will be the remainder when (16^{27} + 37) is divided by 17?

44) Find the remainder when 84 + 98 + 197 + 240 + 140 is divide by 32

45) What is the remainder when 123 x 124 x 125 is divided by 9