APTI 1

1.Sowya told Bhaghya “10 times the month of my birth added to 12 times the date of my birth is 388. In which month could have sowmya have been born?

a) august b) September c) October d) February.

Ans)c

2. how many 3 digit number leave a reminder of 4,when divided by 21 and a reminder of 8 when divided by 13?

a) 2 b) 3 c) 5 d) 4.

ans )d

3. In how many ways the number 141 be divided into two parts such that one part is divisible by 5 and the other part is divisible by 9?

a) 1 b) 2 c) 3 d) 4

ans)c

4. In a triangle,all the angles are acute and 19 times an angle equall to 15 times the other. What the least possible angle in the triangle in degrees?

a) 57 b) 60 c) 44 d) 30

ans) c

5. P ans Q are natural numbers such that P>=Q.P+2Q=60. Find the number of possibilities f(P,Q)?

a)18 b) 10 c) 20 d) 21.

Ans)c

6. How many terms at the maximum,of the progression 2,5,8…….. can be considered if the sum is less than 3000?

a)60 b) 44 c) 68 s) 70.

Ans)b

7. The sum of perfect square numbers from 50 to 2500 is

a) 39825 b) 40975 c) 42785 d) 44785

ans)c

8. Find the sum of the first 25 terms of the following series sn 3+12+25+42+63+88+…

a) 11579 b)11795 c)11975 d) 11957.

Ans)c

9. The nth term of the series 6,13,20,…..is 636. Find n.

a) 90 b) 91 c) 100 d) 110.

Ans)b

10. In an arithmetic progression the 3rd term is 28 and the sum of first 21 term is 1932. Find the sum of first 11 terms.

a) 572 b) 580 c) 593 d) 600.

Ans)c