**PRAGATI ENGINEERING COLLEGE**

(Autonomous)

Training and Placement Cell\

1) Two full tanks one shaped like a cylinder and the other like a cone, contain liquid fuel. The cylinder tank held 500lts more than the conical tank. After 200 lts of fuel is pumped out from each tank the cylindrical tank now contains twice the amount of fuel in conical tank. How many litre of fuel did the cylindrical tank have when it was full?

a)1000 b) 1100 **c)1200**  d) 1300

2) An engineer undertakes a project to build a road 15km long in 300days and employs 45men for propose. After 10days he finds only 2.5kms of the road has been completed. Find apex num of extra men he must employ to finish the work in time?

a)58 **b) 68** c) 78 d) 98

3)If f(1)=4 and f(x+y)=f(x)+f(y)+f(xy)+2 for x>0 y>0 then f(2)+f(5) =?.

a)95 b) 105 **c) 115**  d) 125

4) 26ab5 is a five digit number divisible by 25. If the number formed from the two digits ab is a multiple of 13, then ab=?

**a)52** b)65 c)10 d)25

5) Find the odd man out

7, 17,19,43,91,131

a)17 b) 43 **c) 91**  d) 7

6) A is twice a good work man as B. Together they can do a piece of work in 18days. In how many day A alone can do it?

**a)27days** b) 31days c) 29days d) 43days

7) A can do a piece of work in 30 days and B in 35 days. They st. Work together but B leaves after some day A completes remaining work in 17 more days. After how many days B left?

a)99days b) 115days **c) 119days**  d) 110days

8) A can do a piece of work in 6days and B in 8 days with the help of c both A, B completes in 3 days. The contract for work is 3200/- how much shall c be paid?

a)300 **b) 400** c) 500 d) 600

9) Thief steals a car at 7:30am and drives at 60kmph. The theft is discovered at 8 a.m and th owner starts in another car at 75kmph. At what time the thief is caught. Find the distance travelled by thief before he is caught?

a)9.a.m b) 9.30am c) 10.30am **d) 10 am**

10) The mean of three number is 10 more than the least of the numbers and 15 less than the greatest of three . if median of 3 numbers is 5 the sum of the three is ?

a)50 b) 20 c) 25 **d) 30**

11) The number 272738 and 232342 when divisible by n, a 2 digit number leaves q remainder 13 and 17 respectively. Find the sum of the digits ?

a)4 b) 5 c) 6 **d) 7**

12)A box of fruits can be loaded truck in 9 minutes by a worker and 8 boxes fill a truck completely? How many trucks can be loaded completely in 1(1/2) hr if there are 16 men working together?

**a)20** b) 22 c) 26 d) 28

13)From a box containing 3 white chips, 7 blue chips and 15 green chips 2 chips are drawn at random what is probability that one is of the chip is blue and the other is white?

**a)7/180** b) 8/45 c) 6/135 d) 4/75

14) The sum of 3 consecutive numbers A,B,C,D are 4613, 4961, 5010,5099 then what is the largest number among A, B, C, D ?

a)1937 **b) 1948** c) 1955 d) 1928

15) George is 2/3 as efficiency as smith and smith is three fourth as efficiency as john. In one day what will be the fraction of work done by George alone compare to all of them working together?

a)2/9 b) 3/9 **c) 4/9**  d) 5/9