- On dividing  $10t^4 6t^3 40t^2 + 41t 5$  by a polynomial g(t), the quotient and remainders were 5t 3 and 2t + 4 respectively, find g(t).
- Q.12 If  $\sin(A-B) = \frac{1}{2}$  and  $\cos(A+B) = \frac{1}{2}$ ,  $0^{\circ} < A+B \le 90^{\circ}$ , A > B, find A and B.
- Solve the following system of equations: 99x + 101y = 499101x + 99y = 501
- O14 The following table shows the ages of patients admitted in a hospital during a year.

All the same of th			Company of the compan	willow real training in J cours		
Ages (in yrs)	5-15	15-25	25-35	35-45	45-55	55-65
No. of patients	6	11	21	23	7.4	5

- Find the mode of the data given above.
- Prove that:  $\frac{\cos A \sin A + 1}{\cos A + \sin A 1} = \operatorname{cosec} A + \cot A$
- O.16 In given figure, ABD is a triangle right angled at A and  $AC \perp BD$ , show that  $AC^2 = BC \cdot DC$ .
- Q.18 Prove that the area of an equilateral triangle described on one side of a square is equal to half the area of the equilateral triangle described on one of its diagonal.
- P.19 The following table show the distribution of marks obtained by the students in a certain subject –

Marks	Below	Below	Below	Below	Below
	10	20	30	40	50
No. of students	3	8	16	22	25

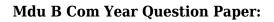
- Calculate the median marks
- 0.20 Prove that \3 is an irrational number.

#### SECTION - D

- 2.21 8 men and 6 boys can finish a piece of work in one day while 2 men and 3 boys can finish it in 3 days. Find the time taken by one man alone and that by one boy alone to finish the work.
- 22 If xsin' 0 + y cos' 0 = sin 0 cos 0 and xsin 0 = y cos 0. Prove that x' + y' =1.
- 231 State and prove Pythagoras theorem.

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