

## SEM II ATKT INTERNAL QUESTIONS

### MATHS

- **ROLL NO. 1005**

1. A person has taken a loan of Rs. 40,000 from a Money lender who charges a high interest at 10 % per month. The person returns the loan in equal installments in 4 months. Find his EMI using the reducing balance method.
2. Permutation & Combination.
3. Construct a table of value of the function  $f(x)=x^3$  for  $X=0(2) 10$ . Use Newton's forward interpolation formula to find  $(2.5)^3$ .
4. If the total cost function is given by  $C=4X^2+7x+3$ . Find the average cost and marginal Cost when  $X =4$ .
5. Explain future value & present value.

- **ROLL NO. 1101**

1. A loan of Rs 80,000 is to be returned in 3 Monthly installments at the rate of 12% p.a. compounded monthly. Find the EMI using the reducing balance method.
2. Write a note on Type of functions.
3. Explain Applications of Derivatives.
4. Find  $f(7)$  using the following table.

X	0	2	4	6	8
F(X)	2	5	10	17	26

by applying Newton's backward interpolation formula.

5. Find the accumulated value after 3 year of an immediate annuity of Rs 10,000 p.a. with interest compounded at 7% p.a.



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