

## Model Question Set

New Course : 2021 ( Diploma in Engineering All )

Year: II

Semester: I

Subject: Engineering Mathematics III

F.M. = 80

P.M. = 32

Time: 3 hrs

Group 'A'

[7 × (2 + 2) = 28]

Attempt All Question

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1. (a) Find the derivative of  $\sin^{-1}(3x - 4)$ .  
(b) Find the slope of the curve  $y = 2x^2 - x$  at  $(1, 0)$ .
2. (a) Find the points of stationary points  $f(x) = x^3 - 3x^2 + 9$ .  
(b) State L' Hospitals's Theorem and use it to evaluate  $\lim_{x \rightarrow 4} \frac{x^2 - 16}{x - 4}$ .
3. (a) Find first order partial derivatives of  $f(x, y) = ax^2 + 2hxy + by^2$ .  
(b) Find  $\frac{\partial y}{\partial x}$  if  $y = x^2 - 5x + 7$  and  $x + 9rs + 2r^2s^2$ .
4. (a) Test whether the given function is even, odd or neither where,  
 $f(x) = \sqrt{1 + x^2} - \sqrt{1 - x^2}$   
(b) Find the smallest period of  $f(x) = \sin 2x$ .
5. (a) Find the area bounded by the curve  $y = 4x^2$ ,  $x$  - axis and the ordinates  $x = 0, x = 2$ .  
(b) Determine the order and degree of the differential equation:  
$$\frac{dy}{dx} = (x + y + 1)^2$$

# Diploma 3rd Semester Mathematics Question Paper Bing

**Marquis Who's Who,[Anonymus  
AC01783920]**

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