

2020

Full Marks : 20

Time : As in the Programme

The figures in the right hand margin indicate marks.

[10×2]

Answer any two.

1. What is function ? Discuss different properties of function.
2. Discuss different types of functions with appropriate graphs of functions.
3. Find  $\frac{dy}{dx}$  for the following values of  $\gamma$ :

$$a) \gamma = 3x^2 + 7x^2 - 9x + 20$$

$$b) \gamma = (x+2)(3x+2)$$

4. Prove rate of fall of MR curve is the twice the rate of fall of AR Curve.
5. Find the partial derivative of first & second order.

$$z = 2x^2 + 5x^2y + xy^2 + y^2$$

6. What is Matrix? Discuss the different features of Matrix.

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