

# Model Question Paper-I with effect from 2021 (CBCS Scheme)

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## First Semester B.E Degree Examination Calculus and Differential Equations (21MAT11)

TIME: 03 Hours

Max. Marks: 100

Note: Answer any FIVE full questions, choosing at least ONE question from each MODULE.

| Module -1 |   |                                                                                                                                                                   | Marks |
|-----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Q.01      | a | With usual notations prove that $\tan \phi = r \frac{d\theta}{dr}$                                                                                                | 06    |
|           | b | Find the angle between the curves $r = a(1 + \cos \theta)$ and $r = a(1 - \cos \theta)$                                                                           | 07    |
|           | c | Show that the radius of curvature at any point of the cycloid $x = a(\theta - \sin \theta)$ , $y = a(1 - \cos \theta)$ is $4a \cos \left(\frac{\theta}{2}\right)$ | 07    |
| OR        |   |                                                                                                                                                                   |       |
| Q.02      | a | If $p$ be the perpendicular from the pole on the tangent, then show that $\frac{1}{p^2} = \frac{1}{r^2} + \frac{1}{r^4} \left(\frac{dr}{d\theta}\right)^2$        | 06    |
|           | b | Find the pedal equation of the curve $r^m = a^m(\cos m\theta + \sin m\theta)$                                                                                     | 07    |
|           | c | Find the radius of curvature of the curve $x^3 + y^3 = 3axy$ at $\left(\frac{3a}{2}, \frac{3a}{2}\right)$                                                         | 07    |
| Module-2  |   |                                                                                                                                                                   |       |
| Q.03      | a | Expand $e^{\sin x}$ by Maclaurin's series up to the term containing $x^4$                                                                                         | 06    |
|           | b | If $u = f(2x - 3y, 3y - 4z, 4z - 2x)$ , show that $6u_x + 4u_y + 3u_z = 0$                                                                                        | 07    |
|           | c | Examine the function $f(x, y) = xy(1 - x - y)$ for extreme values                                                                                                 | 07    |
| OR        |   |                                                                                                                                                                   |       |
| Q.04      | a | Evaluate (i) $\lim_{x \rightarrow 0} \left(\frac{\tan x}{x}\right)^{\frac{1}{x^2}}$ (ii) $\lim_{x \rightarrow 0} (\cos x)^{\frac{1}{x^2}}$                        | 06    |
|           | b | If $z = e^{ax+by} f(ax - by)$ , show that $b \frac{\partial z}{\partial x} + a \frac{\partial z}{\partial y} = 2abz$                                              | 07    |
|           | c | If $x + y + z = u$ , $y + z = uv$ and $z = uvw$ , find $\frac{\partial(x, y, z)}{\partial(u, v, w)}$                                                              | 07    |

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