

Roll No .....

**BT-202 (GS)****B.Tech., I & II Semester**

Examination Model Paper, June 2023

**Grading System (GS)****Mathematics-II***Time : Three Hours***Maximum Marks : 70**

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1.a) Solve the following differential equation 7

$$\frac{d^2y}{dx^2} + \frac{dy}{dx} + y = \cos 2x$$

b) Solve  $x^2p^3 + y(1 + x^2y)p^2 + y^2p = 0$ , where  $p = \frac{dy}{dx}$  72.a) Solve the differential equation  $\frac{d^2x}{dt^2} - 2t \tan x \frac{dx}{dt} - 5x = \cos 2x$  by reducing it in normal form. 7b) Solve  $\frac{d^2y}{dx^2} + 2x \frac{dy}{dx} + (x^2 + 1)y = x^2 + 3x$  by changing it in normal form. 73.a) Solve the differential equation  $(D^2 - 6D + 9)y = \frac{e^{2x}}{x^2}$  using variation of parameter. 7b) Show that  $J_n(-x) = (-1)^n J_n(x)$  when  $n$  is a +ve or -ve integer. 74.a) Solve  $x^2p + y^2q = (x + y)z$  7b) Use Lagrange's method, solve the equation  $xz p + yz q = xy$  7

5.a) Prove that an analytic function with constant modulus is constant. 7

b) Show that the function  $f(z) = e^z$  is analytic everywhere. 76.a) Show that the following function is harmonic and find its harmonic conjugate functions  $u = \frac{1}{3} \log(x^2 + y^2)$  7

b) Evaluate the following integral using Cauchy-Integral formula 7

$$\oint_C \frac{4 - 3z}{z(z-1)(z-2)} dz, \text{ where } C \text{ is the circle } |z| = 3/2$$

# Grdecaps Mathematic June 2question Paper

**Peipei Pang**



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