# Question Paper Code: 21521

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Second Semester

Civil Engineering

MA 2161/MA 22/080030004 — MATHEMATICS — II

(Common to all branches)

(Regulation 2008)

Time: Three hours

Maximum: 100 marks Answer ALL questions.

(8)

PART A  $\rightarrow$  (10 × 2 = 20 marks)

- Find the particular integral of  $(D^2 2D + 1)y = \cosh x$ . 1.
- Solve  $x^2 \frac{d^2y}{x^2} + 4x \frac{dy}{dx} + 2y = 0$ . 2.
- Find the directional derivative of  $\phi = xyz$  at (1,1,1) in the direction of  $\vec{i} + \vec{j} + \vec{k}$ . 33.
- If A and B are irrotational, prove that  $A \times B$  is solenoidal.
- Find the image of the line x = k under the transformation  $w = \frac{1}{k}$ .
- Find the fixed points of mapping  $w = \frac{6z-9}{z}$ . 6.
- Evaluate  $\int_{c}^{\frac{3z^2+7z+1}{z}} dz$ , where C is  $|z|=\frac{1}{2}$ .
- Find the residue of  $\frac{1-e^{2z}}{z^4}$  at z=0. 8.
- Find the Laplace transform of  $\frac{1}{4}$ . 9.
- Verify initial value theorem for the function  $f(t) = ae^{-bt}$ . 10. PART B —  $(5 \times 16 = 80 \text{ marks})$
- Solve the differential equation  $\frac{d^2y}{dy^2} + 2\frac{dy}{dy} + y = \frac{e^{-x}}{x^2}$  by the method **(1)** 11. (m) of variation of parameters. (8)
  - Solve:  $(3x+2)^2 \frac{d^2y}{dx^2} + 3(3x+2)\frac{dy}{dx} 36y = 3x^2 + 4x + 1$ . (8)
  - Solve the simultaneous differential equations :  $\frac{dx}{dt} + 5x 2y = t$ ; (b) (i)  $\frac{dy}{dt} + 2x + y = 0.$ 
    - Solve  $x^2 \frac{d^2y}{dx^2} + 4x \frac{dy}{dx} + 2y = x^2 + \frac{1}{x^2}$ . (8)

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