

# Question Paper Code : 21521

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B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

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.

PART A — (10 × 2 = 20 marks)

1. Find the particular integral of  $(D^2 - 2D + 1)y = \cosh x$ .
2. Solve  $x^2 \frac{d^2y}{dx^2} + 4x \frac{dy}{dx} + 2y = 0$ .
3. Find the directional derivative of  $\phi = xyz$  at  $(1,1,1)$  in the direction of  $\vec{i} + \vec{j} + \vec{k}$ .
4. If  $\vec{A}$  and  $\vec{B}$  are irrotational, prove that  $\vec{A} \times \vec{B}$  is solenoidal.
5. Find the image of the line  $x = k$  under the transformation  $w = \frac{1}{z}$ .
6. Find the fixed points of mapping  $w = \frac{6z - 9}{z}$ .
7. Evaluate  $\int_C \frac{3z^2 + 7z + 1}{z + 1} dz$ , where  $C$  is  $|z| = \frac{1}{2}$ .
8. Find the residue of  $\frac{1 - e^{2z}}{z^4}$  at  $z = 0$ .
9. Find the Laplace transform of  $\frac{t}{e^t}$ .
10. Verify initial value theorem for the function  $f(t) = ae^{-bt}$ .

PART B — (5 × 16 = 80 marks)

11. (a) (i) Solve the differential equation  $\frac{d^2y}{dx^2} + 2 \frac{dy}{dx} + y = \frac{e^{-x}}{x^2}$  by the method of variation of parameters. (8)
- (ii) Solve :  $(3x + 2)^2 \frac{d^2y}{dx^2} + 3(3x + 2) \frac{dy}{dx} - 36y = 3x^2 + 4x + 1$ . (8)
- Or
- (b) (i) Solve the simultaneous differential equations :  $\frac{dx}{dt} + 5x - 2y = t$ ;  
 $\frac{dy}{dt} + 2x + y = 0$ . (8)
- (ii) Solve  $x^2 \frac{d^2y}{dx^2} + 4x \frac{dy}{dx} + 2y = x^2 + \frac{1}{x^2}$ . (8)

# Grade Mathematics Question Paper Caps 2013

**Julia Schneider**



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