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

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