

Time: Three

Max. Marks: 75

This question paper consists two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 parts. Answer any four full questions from each part.

Each question carries 10 marks and any four a, b, c or d in each question.

PART A

(25 Marks)

- Find $\int_0^1 x^2 dx$. (5)
- Define First order partial differential equation. (5)
- Evaluate $\int_0^1 x^2 dx$. (5)
- Evaluate $\int_0^1 x^2 dx$. (5)
- Using triple integral, find the volume of a rectangular box whose length is 4 ft, breadth is 3 ft and height is 2 ft. (5)
- Evaluate $\int_0^1 x^2 dx$. (5)
- Define spherical coordinates. (5)
- Prove that $\nabla \cdot \nabla u = \Delta u$ where $u = x^2 + y^2 + z^2$. (5)
- State Stokes theorem. (5)
- Evaluate $\int_0^1 x^2 dx$ where x is the volume of the sphere whose radius is a units and $l = a^2 + b^2 + c^2$. (5)

PART B

(50 Marks)

- Find the Laplace transform of $\sin^{-1} \cos t$. (5)
- Find the inverse Laplace transform of $\frac{1}{s^2 + 1}$. (5)
- Solve $y'' + 2y' + 2y = e^{-t}$, with $y(0) = 1$, $y'(0) = 1$ using Laplace transform. (10)
- Evaluate $\int_0^1 x^2 dx$. (5)
- Evaluate $\int_0^1 x^2 dx$. (5)

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