

(REVISED COURSE)

(3 Hours)

QP Code : 11859

Total Marks : 80

- N. B. : (1) Question No.1 is compulsory.
 (2) Attempt any three questions of the remaining five.
 (3) figures to the right indicate full marks.

1. (a) Evaluate $\int_0^2 x^4 (8-x^3)^{-1/3} dx$ 3
 (b) Solve $\frac{d^4 y}{dx^4} + 2 \frac{d^2 y}{dx^2} + y = 0$ 3
 (c) Prove that $E = 1 + \Delta = e^{4\Delta}$ 3
 (d) Solve $[x\sqrt{x^2+y^2} - y]dx + [y\sqrt{x^2+y^2} - x]dy = 0$ 3
 (e) Change to polar coordinates and evaluate $\int_0^{\pi/2} \int_0^{\sqrt{2}\cos\theta} \frac{x}{\sqrt{x^2+y^2}} dy dx$ 4
 (f) Evaluate $\int_0^1 \int_0^2 e^{x+y} dy dx$ 4
2. (a) Solve $\frac{dy}{dx} + x \sin 2y = x^2 \cos^2 y$ 6
 (b) Change the order of integration and evaluate $\int_0^1 \int_{x^2}^x \frac{y}{(a-x)\sqrt{ax-y^2}} dx dy$ 6
 (c) Prove that $\int_0^{\pi} \cos \lambda x (e^{-ax} - e^{-bx}) dx = \frac{1}{2} \log \left(\frac{b^2 + \lambda^2}{a^2 + \lambda^2} \right)$, $a > 0$, $b > 0$ using DUIS rule 8
3. (a) Evaluate $\iiint \frac{dx dy dz}{x^2 + y^2 + z^2}$ throughout the volume of the sphere $x^2 + y^2 + z^2 = a^2$ 6
 (b) Find the area common to the cardioids $r = a(1 + \cos \theta)$ and $r = a(1 - \cos \theta)$. 6
 (c) Apply the method of variation of parameters to solve $\frac{d^2 y}{dx^2} - 4 \frac{dy}{dx} + 4y = e^{2x} \sec^2 x$ 8
4. (a) Find the length of one arc of the cycloid $x = a(\theta - \sin \theta)$ and $y = a(1 - \cos \theta)$ 6
 (b) Solve $\frac{d^2 y}{dx^2} + 2y = x^2 e^{3x} + e^x \cos x$ 6

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M Tight



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Maths Papergrade 2014 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Maths Papergrade 2014**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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