

Third Semester B.E. Degree Examination, June/July 2013

Engineering Mathematics - III

Times: 3 runs.

Address: Atlanta, Georgia 30303

Note: Answer FIVE full questions, selecting at least TWO questions from each part

PART—A

1. a. Obtain the Fourier series expansion of $f(x) = \begin{cases} x, & \text{if } 0 \leq x \leq \pi \\ 2\pi - x, & \text{if } \pi \leq x \leq 2\pi \end{cases}$ and hence deduce that $\frac{\pi^2}{6} = 1 + \frac{1}{3^2} + \frac{1}{5^2} + \frac{1}{7^2} + \dots$ (07 Marks)

- b. Find the half range Fourier sine series of $f(x) = \begin{cases} x, & \text{if } 0 < x < \frac{\pi}{2} \\ \pi - x, & \text{if } \frac{\pi}{2} < x < \pi \end{cases}$. (06 Marks)
- c. Obtain the constant term and coefficients of first cosine and sine terms in the expansion of y from the following table: (07 Marks)

α	0	60°	120°	180°	240°	300°	360°
η	7.9	7.2	3.6	0.5	0.9	6.8	7.9

2. a. Find the Fourier transform of $f(x) = \begin{cases} a^2 - x^2, & |x| \leq a \\ 0, & |x| > a \end{cases}$ and hence deduce $\int_0^\pi \frac{\sin x - x \cos x}{x^3} dx = \frac{\pi}{4}$. (07 Marks)
- b. Find the Fourier cosine and sine transform of $f(x) = xe^{-ax}$, where $a > 0$. (06 Marks)
- c. Find the inverse Fourier transform of e^{-x^2} . (07 Marks)

3. a. Obtain the various possible solutions of one dimensional heat equation $u_t = c^2 u_{xx}$ by the method of separation of variables. (07 Marks)
- b. A tightly stretched string of length l with fixed ends is initially in equilibrium position. It is set to vibrate by giving each point a velocity $V_x \sin\left(\frac{\pi x}{l}\right)$. Find the displacement $u(x, t)$. (06 Marks)
- c. Solve $u_{xx} + u_{yy} = 0$ given $u(x, 0) = 0$, $u(x, 1) = 0$, $u(1, y) = 0$ and $u(0, y) = u_0$, where u_0 is a constant. (07 Marks)

4. a. Using method of least square, fit a curve $y = ax^b$ for the following data.

x	1	2	3	4	5
y	0.5	2	4.5	8	12.5

- b. Solve the following LPP graphically:
Minimize $Z = 20x + 16y$
Subject to $3x + y \geq 6$, $x + y \geq 4$, $x + 3y \geq 6$ and $x, y \geq 0$. (06 Marks)
- c. Use simplex method to
Maximize $Z = x + (1.5)y$
Subject to the constraints $x + 2y \leq 160$, $3x + 2y \leq 240$ and $x, y \geq 0$. (07 Marks)

Mechanical Technology Sep 2013 Question Paper Grade1

Ying-Ying Zheng



Mechanical Technology Sep 2013 Question Paper Grade1:

Mechanical Technology Sep 2013 Question Paper Grade1: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Mechanical Technology Sep 2013 Question Paper Grade1 : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mechanical Technology Sep 2013 Question Paper Grade1 : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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