

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

## Engineering Mathematics - III

Time: 3 hrs.

Max. Marks: 100

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  $\frac{\pi^2}{8} = \frac{1}{1^2} + \frac{1}{3^2} + \frac{1}{5^2} + \dots$  (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)

x	0	60°	120°	180°	240°	300°	360°
y	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  $V_0 \sin\left(\frac{\pi x}{l}\right)$ . 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. (07 Marks)

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)

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**JE Gale**



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