

**Third Semester B.E. Degree Examination, Aug./Sept. 2020**  
**Engineering Mathematics – III**

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

**Module-1**

- 1 a. Obtain the Fourier series of  $f(x) = x(2\pi - x)$  in  $0 \leq x \leq 2\pi$  and hence deduce that :

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

(08 Marks)

- b. Express  $y$  as a Fourier series upto the second harmonics given :

$x$	0	1	2	3	4	5
$y$	4	8	15	7	6	2

(08 Marks)

**OR**

- 2 a. Obtain the Fourier series for  $f(x) = e^{-x}$  in the interval  $0 < x < 2$ . (06 Marks)  
 b. Expand the function  $f(x) = x \sin x$  as a Fourier series in the interval  $-\pi \leq x \leq \pi$ . (05 Marks)  
 c. Expand  $f(x) = 2x - 1$  as a cosine half-range Fourier series in  $0 \leq x < 1$ . (05 Marks)

**Module-2**

- 3 a. Find the Fourier transform of

$$f(x) = \begin{cases} 1 - |x| & \text{for } |x| \leq 1 \\ 0 & \text{for } |x| > 1 \end{cases}$$

And hence deduce that  $\int_0^\infty \frac{\sin^2 t}{t^2} dt = \frac{\pi}{2}$

(06 Marks)

- b. Find the Fourier cosine transform of

$$f(x) = \begin{cases} x & 0 < x < 2 \\ 0 & \text{else where} \end{cases}$$

(05 Marks)

- c. Find the  $z$ -transform of : i)  $\cos n\theta$  ii)  $\sin n\theta$ . (05 Marks)

**OR**

- 4 a. Obtain the Fourier transform of  $f(x) = x e^{-|x|}$ . (06 Marks)  
 b. If  $u(z) = \frac{2z^2 + 3z}{(z+2)(z-4)}$ , find the inverse  $z$ -transform. (05 Marks)  
 c. Solve the difference equation  $y_{n+2} + 6y_{n+1} + 9y_n = 2^n$  with  $y_0 = y_1 = 0$  using  $z$ -transforms. (05 Marks)

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