

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

Time: 3 hrs.

Max. Marks: 100

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

Module-1

1. a. Find the Fourier series to represent the periodic function $f(x) = x - x^2$ from $x = -\pi$ to $x = \pi$. (08 Marks)
- b. The following table gives the variations of periodic current over a period.

t sec	0	$\frac{T}{6}$	$\frac{T}{3}$	$\frac{T}{2}$	$\frac{2T}{3}$	$\frac{5T}{6}$	T
A amp.	1.98	1.30	1.05	1.30	-0.88	-0.25	1.98

Expand A as a Fourier series upto first harmonic. Obtain the amplitude of the first harmonic. (06 Marks)

- c. Find the half range cosine series for the function $f(x) = (x-1)^2$ in $0 < x < 1$. (06 Marks)

OR

2. a. Find the Fourier series of $f(x) = 2x - x^2$ in $(0, 3)$. (08 Marks)
- b. Obtain the constant term and the coefficients of the first sine and cosine terms in the Fourier series expansion of y as given in the following table: (06 Marks)

x:	0	1	2	3	4	5	6
y:	9	18	24	28	26	20	9

- c. Obtain the half-range sine series for the function,

$$f(x) = \begin{cases} x, & 0 < x < \frac{\pi}{2} \\ \pi - x, & \frac{\pi}{2} < x < \pi \end{cases}$$

(06 Marks)

Module-2

3. a. Find the Fourier transform of $f(x) = \begin{cases} a^2 - x^2, & |x| \leq a \\ 0, & |x| > a \end{cases}$. Hence deduce that

$$\int_0^{\infty} \frac{(\sin x - x \cos x)}{x^3} \cos \frac{x}{2} dx = \frac{3\pi}{16}.$$

(08 Marks)

- b. Find the Z-transform of,
 (i) $\cos n\theta$ and (ii) $\cosh n\theta$ (06 Marks)
- c. Solve $y_{n+2} + 6y_{n+1} + 9y_n = 2^n$ with $y_0 = 0 = y_1$, using z-transforms technique. (06 Marks)

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