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

Obtain the Fourier series of f(x) = x(2π - x) in 0 ≤ x ≤ 2π and hence deduce that :

| 70.7 | 1 | | 1 | | 1 | 4 | | | |
|-----------------------|----|---|----|---|----|---|---|---|--|
| $\frac{\pi^{*}}{8} =$ | 12 | + | 32 | * | 52 | + | - | - | |

(08 Marks)

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

| 24. | 0 | 1 | 2 | 3 | -4 | - 5 |
|-----|---|-----|-----|---|----|-----|
| W | 4 | - 8 | 1.5 | 7 | 6 | 7 |

(08 Marks)

OB

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 $-\pi \le x \le \pi$. c. Expand f(x) = 2x - 1 as a cosine half range Fourier series in $0 \le x \le 1$.
- (05 Marks) (05 Marks)

Miodule-2

a. Find the Fourier transform of

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

And hence deduce that
$$\int_{c}^{t_0} \frac{\sin^2 t}{t^2} dt = \frac{\pi}{2}$$

(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) cosn θ ii) sin n θ.

(05 Marks).

OR

4 a. Obtain the Fourier transform of f(x) = xe^{-|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.

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