

**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.

$$f(x) = \begin{cases} x, & 0 < x < \frac{\pi}{2} \\ \pi - x, & \frac{\pi}{2} < x < \pi \end{cases} \quad (06 \text{ Marks})$$

**Module-2**

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

$$\int_0^{\pi} \frac{(\sin x - x \cos x)}{x^2} \cos \frac{x}{2} dx = \frac{3\pi}{16} \quad (08 \text{ Marks})$$

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)

# Engg Maths Model Question Paper

**J Elliott**

## Engg Maths Model Question Paper:

**Engineering Mathematics-1** K. Selvamramanujam,2018-10-10 This is very useful to all engineering national and international students because lot of new methods are introducing this book so students are very easily understanding any critical problems This book is very excellent

**The Model Engineer and Amateur Electrician** ,1906 *Publisher's Monthly* ,2004

**Proceedings ... Papers, Reports, Discussions, Etc., Printed in the Journal of Engineering Education** American Society for Engineering Education,1907

**The Gas Engineer's Magazine** ,1926 *The Model Engineer and Practical Electrician* ,1906

**Science and Art of Mining** ,1930 **Engineering Mathematics** Anthony James Merrill Spencer,1977

**Electrical Engineering** ,1915 **Engineering News** ,1905 **Locomotive Engineering** ,1898

**Engineering** ,1928 **Journal of the Boston Society of Civil Engineers** Boston Society of Civil Engineers,1915

**Journal of Gas Lighting** ,1927 **Gas Journal** ,1927 **Shipbuilding & Marine Engineering International** ,1922

**Parliamentary Papers** Great Britain. Parliament. House of Commons,1894

**Engineering Education** American Society for Engineering Education,1910

**Railway and Locomotive Engineering** ,1899 **Engineering News and American Contract Journal** ,1910

## **Engg Maths Model Question Paper** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Engg Maths Model Question Paper**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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