

**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)

# Engg Maths Model Question Paper

**Oswaal Editorial Board**



## 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 *Engineering Mathematics - II* EduGorilla Prep Experts, 2024-07-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Engineering Mathematics-I** Dr. Kailas L. Vairal, Prof. Nitin R. Kharat, Prof. Ganesh R. More, 2024-10-30 This book is published as per the SPPU National Education Policy 2020 This book used common to all UG Engineering Programs This book will surely benefit every engineering students **Engineering Mathematics II: For UPTU**, *Engineering Mathematics: Volume I* C. S. Mujawar, 2010-08 Engineering Mathematics I is a comprehensive text for the students of Engineering and Technology This book provides an exhaustive understanding subject like mathematics understanding of the mathematical language has been made easier with the help of num Engineering Mathematics II (WBUT), 2Nd Edition Bikas Chandra Bhui & Dipak Chatterjee, Engineers face mathematical dilemmas every day be it simple arithmetic or complex differential equations To bail out engineers in such situations a thorough understanding of applied mathematical concepts is quintessential Engineering Mathematics II comes up with this and more from discussing graph theory to solving improper integrals from working out linear differential equations to understanding the Laplace transforms the book is an exhaustive cache of solved numerical examples to enhance learning and problem solving skills in students The book with its simple calculations and derivations completely meets the requirements of II semester BE BTech students who aspire to master mathematics Keeping the curriculum at focus the authors offer numerous problem sets and model question papers which serve as a great reference work for course study as well as for getting a real life experience of competitive exams With this book as guide students will find tackling complex concepts and problems an easy task It is a great all time companion for budding engineers Key Features 1 Lucid well explained concepts with solved examples 2 Numerical problem sets for self assessment 3 Large number of MCQs and model test papers 4 Past examination papers with answers **Engineering Mathematics-II A.** Ganeshi, G. Balasubramanian, 2009 About the Book This book Engineering Mathematics II is designed as a self contained comprehensive classroom text for the second semester B E Classes of Visveswaraiah Technological University as per the Revised new Syllabus The topics included are Differential Calculus Integral Calculus and Vector Integration Differential Equations and Laplace Transforms The book is written in a simple way and is accompanied with explanatory figures All this make the students enjoy the subject while they learn Inclusion of selected exercises and problems make the book educational in nature It shou **Oswaal Indian Army Agniveer Sena General Duty (GD) (Agnipath Scheme ) Question Bank |**

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