

POKHARA UNIVERSITY

Level: Bachelor
Semester: Fall
Program: BE
Course: Engineering Mathematics I
Year: 2019
Full Marks: 100
Pass Marks: 45
Time: 1 Hour

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. State Leibnitz's theorem for successive derivative of product of two functions $y = uv$. If $y = (x + \sqrt{1+x^2})^2$, show that

$$(1+x^2)y_{n+1} + (2n+1)xy_n + (n^2-n^2)y_{n-1} = 0$$

OR

$$\text{Show that the function } f(x) = \begin{cases} x & \text{for } x < 1 \\ 2-x & \text{for } 1 \leq x \leq 2 \\ x - \frac{x^2}{2} & \text{for } x > 2 \end{cases}$$

is continuous at $x=1$ & $x=2$. Does $f'(x)$ exists at these points.

2. State Rolle's theorem with its geometrical meaning. Also verify the theorem for the function $f(x) = (x-a)^n (x-b)^n$

3. (a) Use L'Hospital rule, Prove that: $\lim_{x \rightarrow 0} (\cos x)^{\tan x} = 1$

- (b) Find the asymptotes of given curve $x^2(y^2-x^2)(x^2+y^2)=0$

OR

Find the total surface area of the right circular cylinder of greatest volume that can be inscribed in a given sphere of radius r .

4. Integrate (Any Three)

$$a) \int \frac{dx}{1+\sin x}$$

$$b) \int \frac{dx}{x + \sqrt{a^2 - x^2}}$$

$$c) \int \frac{dx}{(1-x^2)^2}$$

$$d) \int x^2 dx \quad (\text{by summation})$$

4. a) Find the area between the curves $x = y^2$ and $2y^2 = x+1$

OR

Show that the volume of sphere of radius r is $\frac{4}{3}\pi r^3$

- b) Find the approximate area using Simpson's and Trapezoidal rule for the area bounded by the curve $y = \sin x$, the x -axis and the lines $x = \pi/2$ and $x = 3\pi/2$ (using $n = 4$) and compare these results with exact value.

$$\int_{\pi/2}^{3\pi/2} y \sin x dx$$

Obtain the reduction formula for $\int \cot^n x dx$ and evaluate $\int \cot^3 x dx$

5. a) Define eccentricity of a conic section, and derive the equation of a

hyperbola in its standard form. $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$

- b) Find the equation of tangent to the ellipse $\frac{x^2}{4} + \frac{y^2}{9} = 1$, which is parallel to the line $xy = 1$.

6. a) Define scalar and vector product of three vectors. Prove that the scalar triple product of three vectors represent the volume of parallelepiped.

What conclusion can you draw about these vectors if $\vec{a} \cdot (\vec{b} \times \vec{c}) = 0$.

- b) Find the equation of the plane through $(1, 0, -1)$ and $(-1, 2, 1)$ and parallel to the line of intersection of the planes $3x + y - 2z = 0$ and $4x - y + 3z = 0$

7. Attempt All questions

- a) Find the domain and range for $y = \sqrt{4-x}$

- b) Find the equation of parabola having focus $(-3, 0)$ and directrix $x+5=0$

- c) If $\vec{a} = i - 2j + k$ and $\vec{b} = i + 2j + k$, find the projection of $\vec{a}$ on $\vec{b}$

- d) Evaluate $\int \tan^{-1} x$

Solution Engineering Mathematics I D C Agrwal

Erwin Kreyszig



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Optimization and Management in Manufacturing Engineering Xinbao Liu,Jun Pei,Lin Liu,Hao Cheng,Mi Zhou,Panos M. Pardalos,2017-10-02 Problems facing manufacturing clusters that intersect information technology process management and optimization within the Internet of Things IoT are examined in this book Recent advances in information technology have transformed the use of resources and data exchange often leading to management and optimization problems attributable to technology limitations and strong market competition This book discusses several problems and concepts which makes significant connections in the areas of information sharing organization management resource operations and performance assessment Geared toward practitioners and researchers this treatment deepens the understanding between resource collaborative management and advanced information technology Those in manufacturing will utilize the numerous mathematical models and methods offered to solve practical problems related to cutting stock supply chain scheduling and inventory management Academics and students with a basic knowledge of manufacturing combinatorics and linear programming will find that this discussion widens the research area of resource collaborative management and unites the fields of information technology manufacturing management and optimization **Advances of DNA Computing in Cryptography** Suyel Namasudra,Ganesh Chandra Deka,2018-09-03 This book discusses the current technologies of cryptography using DNA computing Various chapters of the book will discuss the basic concepts of cryptography steganography basic concepts of DNA and DNA computing approaches of DNA computing in cryptography security attacks practical implementation of DNA computing applications of DNA computing in the cloud computing environment applications of DNA computing for big data etc It provides a judicious mix of concepts solved examples and real life case studies **Who's who in Finance and Industry** ,1999 **Who's who in Finance and Industry 2000-2001** ,1999 **Solutions to Engineering Mathematics Vol.II** C.P. Gandhi,2007 *Advanced Modern Engineering Mathematics Solutions Manual* Glyn James,2002-06-01 *Solution Manual to Engineering Mathematics* N. P. Bali,Dr. Manish Goyal,C. P. Gandhi,2010 **Solutions to Engineering Mathematics Vol. I** C.P. Gandhi,2008 Answers and Solutions for Advanced Engineering Mathematics Peter V. O'Neil,1983-01-01 *Mathematics of Engineering and Science* Mehdi Rahmani-Andebili,2024-11-22 This study guide is designed for students taking courses in engineering mathematics and mathematical methods in science The textbook includes problems with detailed solutions to teach students the subjects in detail and partially and fully solved exercises with hints to required formulas and answers enabling students to practice independently and guiding them through problem solving procedures The material covered in the book includes complex functions complex transformations singularities of complex functions complex series Taylor and Laurent series expansions residue complex integration Fourier series half domain Fourier sine and cosine series complex Fourier series Fourier integral complex Fourier integral Fourier transform half domain Fourier sine and cosine transform and partial differential equations

Offering detailed solutions multiple problem solving methods and clear explanations of concepts this hands on tutorial will improve students problem solving skills and foster a solid understanding of engineering mathematics and mathematical methods in science **Higher Mathematics for Engineering and Technology** Mahir M. Sabzaliev,Ilhama M.

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