

DEPARTMENT OF CIVIL ENGINEERING
NWFP UNIVERSITY OF ENGINEERING AND TECHNOLOGY PESHAWAR.
All Campuses
Final Term Examination 2nd Semester Spring 2006

Course: Calculus (BSI-102)
 Max Marks: 50

Time: 2:15 hours

Note: Attempt all questions

- Q1. a) Find the vector equation of the line tangent to the graph of $r(t) = 4 \cos t \mathbf{i} - 3t \mathbf{j}$ at the point $p(2, -\pi)$
- b) Evaluate $\int_0^1 (e^{2t} \mathbf{i} + e^{-t} \mathbf{j} + t \mathbf{k}) dt$
- Q2. a) Sketch the level curve, $z = k$ for specified value of k , $f(x, y) = x^2 + 9y^2$ at $k = 0, 1, 2, 3, 4$
- b) If $w = x^2 y \cos z$. Find $\frac{\partial w}{\partial x}$, $\frac{\partial w}{\partial y}$ (2, 1, z)
- Q3. a) Use total differential to approximate the change in $f(x, y)$ as (x, y) varies from P to Q $f(x, y, z) = 2xy^2z^3$, $P(1, -1, 2)$, $Q(0.99, -1.02, 2.02)$.
- b) At what rate is the volume of a box changing if its length is 8 ft and increasing at 3 ft/s, its width 6 ft and increasing at 2 ft/s and its height is 4 ft and increasing at 1 ft/s?
- Q4. a) Find directional derivative of $f(x, y, z) = \frac{y}{x+z}$ at $P(2, 1, -1)$ in the direction from P to $Q(-1, 2, 0)$.
- b) Find the gradient of $f = \frac{z}{x^2 + y^2}$.
- Q5. a) Locate all relative maxima, relative minima and saddle point, if any $f(x, y) = xy + \frac{a^2}{x} + \frac{b^2}{y}$ ($a \neq 0, b \neq 0$).
- b) At what point or points on the circle $x^2 + y^2 = 1$ does $f(x, y) = xy$ have an absolute maximum and what is that maximum? (Use Lagrange Multiplier)

$v = w \cdot \nabla f$

$\frac{dl}{dt} = 3$

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1. Understanding the eBook N2 Civil Engineering Previous Question Papers
 - The Rise of Digital Reading N2 Civil Engineering Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N2 Civil Engineering Previous Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an N2 Civil Engineering Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N2 Civil Engineering Previous Question Papers
 - Personalized Recommendations
 - N2 Civil Engineering Previous Question Papers User Reviews and Ratings
 - N2 Civil Engineering Previous Question Papers and Bestseller Lists
5. Accessing N2 Civil Engineering Previous Question Papers Free and Paid eBooks
 - N2 Civil Engineering Previous Question Papers Public Domain eBooks
 - N2 Civil Engineering Previous Question Papers eBook Subscription Services
 - N2 Civil Engineering Previous Question Papers Budget-Friendly Options

6. Navigating N2 Civil Engineering Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - N2 Civil Engineering Previous Question Papers Compatibility with Devices
 - N2 Civil Engineering Previous Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N2 Civil Engineering Previous Question Papers
 - Highlighting and Note-Taking N2 Civil Engineering Previous Question Papers
 - Interactive Elements N2 Civil Engineering Previous Question Papers
8. Staying Engaged with N2 Civil Engineering Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N2 Civil Engineering Previous Question Papers
9. Balancing eBooks and Physical Books N2 Civil Engineering Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N2 Civil Engineering Previous Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine N2 Civil Engineering Previous Question Papers
 - Setting Reading Goals N2 Civil Engineering Previous Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N2 Civil Engineering Previous Question Papers
 - Fact-Checking eBook Content of N2 Civil Engineering Previous Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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