

**DEPARTMENT OF CIVIL ENGINEERING**  
**NWFP UNIVERSITY OF ENGINEERING AND TECHNOLOGY PESHAWAR.**  
*All Campuses*  
**Final Term Examination 2<sup>nd</sup> 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  $r(t) = 4 \cos t \, i - 3t \, j$  at the point  $p(2, -\pi)$
- b) Evaluate  $\int_0^1 (e^{2t} i + e^{-t} j + tk) \, dt$
- 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)

$$v = w \cdot \nabla f$$

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

# N2 Civil Engineering Previous Question Papers

**Ensheng Dong**



## N2 Civil Engineering Previous Question Papers:

Chemical & Metallurgical Engineering Eugene Franz Roeber, Howard Coon Parmelee, 1928      [2026] RAJASTHAN CIVIL ENGINEERING SOLVED PAPERS (English Medium) GSNotes, 2026 RAJASTHAN CIVIL ENGINEERING SOLVED PAPERS English Medium USEFULL FOR RSSB JE Diploma Degree RPSC Lecturer RPSC AE RIICO AE DLB AE Asst Town Planner RIICO Draftsman RPSC Surveyor DLB Senior Draftsman RPSC ACF HRRL JMRC JE JDA RSPCB JE JEE JSO etc      **Bulletin ... of Books Added to the Public Library of Detroit, Mich** Detroit Public Library, 1906      Engineering News, 1905

**The Engineer**, 1883      Serials Holdings Linda Hall Library, 1989      *Sessional Papers* Great Britain. Parliament. House of Commons, 1905      **Engineering**, 1878      **Engineering Record, Building Record and Sanitary Engineer** Charles Frederick Wingate, Henry C. Meyer, 1909      The Environment Index, 1987      **The Canadian Engineer ...**, 1930      **The Chemical Trade Journal and Chemical Engineer** G Kelville Davis, 1929      Current Index to Journals in Education, 2000

**Industrial Engineering** George Worthington, 1886      *Engineering and Contracting*, 1914      **Electrical Engineer**, 1890      **The Popular Science Monthly**, 1919      **CAD/CAM Abstracts**, 1992      *Environment Abstracts*, 1976

**Engineering-contracting**, 1909

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