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 cost i - 3ij at the point p(2, -π)

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

$$f(x,y) = xy + \frac{a^3}{x} + \frac{b^3}{y}$$
 $(a \neq 0, b \neq 0)$.

b) At what point or points on the circle x² + y² = 1 does f(x, y) = xy have an absolute maximum and what is that maximum? (Use Lagrange Multiplier)

Past Papers N4 Civil Engineering

J Elliott

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Engineering, 1878 Classed Subject Catalog Engineering Societies Library, 1965 Research in Education ,1970-05 Library of Congress Catalogs Library of Congress, 1976 Resources in education, 1982-05 Paper Trade Journal, 1920 Abstract Journal in Earthquake Engineering, 1991 Building Industry Technology, 1985

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