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 $r(t) = 4\cos t\, i - 3j$ 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

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

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)

$v = w\,l\,b \cdot t$ $\frac{dl}{dt} = 3$

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