

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

Course: Calculus OBSI-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 $f(x, y, z) = 2xy^2 z^3$, $P(1, -1, 2)$, $Q(0.99, -1.02, 2.02)$.
 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

$$f(x, y) = xy + \frac{a^2}{x} + \frac{b^2}{y} \quad (a \neq 0, b \neq 0)$$

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)

$v = w \cdot h \cdot l$

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

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