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
$r(t) = 4\cos t \, i - 3tj$ 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 $\dfrac{\partial w}{\partial x}, \dfrac{\partial w}{\partial y} (2,1,z)$

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 $f(x,y,z) = \dfrac{y}{x+z}$ at $P(2,1,-1)$ in the
direction from P to $Q(-1,2,0)$.

      b)   Find the gradient of $f = \dfrac{z}{x^2 + y^2}$.

Q5.   a)   Locate all relative maxima, relative minima and saddle point, if any

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

      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)

$v = w.h.l$ $\dfrac{dl}{\partial t} = 3$

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