

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

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

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

Grade 12014 Civil Engineering Papers With Memorandum

IM Harris



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Undermining Racial Justice Matthew Johnson, 2020-04-15 Over the last sixty years administrators on college campuses nationwide have responded to black campus activists by making racial inclusion and inequality compatible This bold argument is at the center of Matthew Johnson s powerful and controversial book Focusing on the University of Michigan often a key talking point in national debates about racial justice thanks to the contentious Gratz v Bollinger 2003 Supreme Court case Johnson argues that UM leaders incorporated black student dissent selectively into the institution s policies practices and values This strategy was used to prevent activism from disrupting the institutional priorities that campus leaders deemed more important than racial justice Despite knowing that racial disparities would likely continue Johnson demonstrates that these administrators improbably saw themselves as champions of racial equity What Johnson contends in Undermining Racial Justice is not that good intentions resulted in unforeseen negative consequences but that the people who created and maintained racial inequities at premier institutions of higher education across the United States firmly believed they had good intentions in spite of all the evidence to the contrary The case of the University of Michigan fits into a broader pattern at elite colleges and universities and is a cautionary tale for all in higher education As Matthew Johnson illustrates inclusion has always been a secondary priority and as a result the policies of the late 1970s and 1980s ushered in a new and enduring era of racial retrenchment on campuses nationwide

Civil Engineering Gordon Brunton, 1982 **Examination Papers** Princeton University, 1901 **Civil Engineering Working Paper** ,

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15 the three nodes on the lever diagram represent the ring gear carrier

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