

**MODEL QUESTION PAPER – 4**  
with Detailed Solutions

- If atleast one eigen value is zero and the remaining are negative then the quadratic form is
  - positive definite
  - negative definite
  - positive semidefinite
  - negative semidefinite
- Find the rank of the matrix  $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 3 & 6 & 9 \end{bmatrix}$  is
  - 0
  - 2
  - 1
  - 3
- A square matrix  $A$  is said to be non-singular if
  - 0
  - $|A| \neq 0$
  - $|A| \neq 0$
  - Scalar matrix
- If  $A$  is a non singular matrix of order 4 then Rank of  $A =$ 
  - 3
  - 4
  - 2
  - 1
- If three points  $(x_r, y_r), r = 1, 2, 3$  are vertices of an equilateral triangle then  $\begin{bmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{bmatrix}$  has rank
  - 2
  - 1
  - 3
  - 0
- The function  $f(x, y)$  has a maximum at  $(a, b)$  if  $\left(\frac{\partial f}{\partial x}\right) = 0, \frac{\partial f}{\partial y} = 0$  and
  - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} + \frac{\partial^2 f}{\partial x \partial y} = 0$  and  $\frac{\partial^2 f}{\partial x^2} < 0$
  - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 f}{\partial x \partial y}\right)^2 > 0$  and  $\frac{\partial^2 f}{\partial x^2} < 0$
  - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 f}{\partial x \partial y}\right)^2 > 0$  and  $\frac{\partial^2 f}{\partial x^2} > 0$
  - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \frac{\partial^2 f}{\partial x \partial y} > 0$
- Solve:  $p \tan x + q \tan y = \tan z$ 
  - $f(\tan x, \tan y) = 0$
  - $f(\cos x, \cos y) = 0$

- $f\left(\frac{\sin x}{\sin y}, \frac{\sin y}{\sin z}\right) = 0$
  - $f\left(\frac{\cos x}{\cos y}, \frac{\cos y}{\cos z}\right) = 0$
- Particular integral of  $(D^2 + 16)y = \cos 4x$  is
    - $\frac{x}{8} \cos 4x$
    - $\frac{x}{8} \sin 4x$
    - $x \cos 4x$
    - $x \sin 4x$
  - Particular integral of  $(D^2 + 1)y = e^{-x}$  is
    - $\frac{e^{-x}}{2}$
    - $\frac{e^{-x}}{2}$
    - $\frac{e^{-x}}{-2}$
    - $\frac{e^{-x}}{-2}$
  - If  $z = \log(e^x + e^y)$  then  $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 z}{\partial x \partial y}\right)^2 =$ 
    - 4
    - 3
    - 2
    - 0
  - If  $ax^i + by^j + cz^k$  where  $a, b, c$  are constants, then  $\iint_S \vec{F} \cdot \hat{n} \, ds$  where  $S$  is the surface of the unit sphere is
    - $(a+b+c)$
    - $p(a+b+c)$
    - $\frac{4\pi}{3}(a+b+c)$
    - 0
  - Find the directional derivative of  $\phi = 2xy + 5yz + zx$  at the point  $(1, 2, 3)$  in the direction  $3i - 5j + 4k$ 
    - $-2\sqrt{2}$
    - $\sqrt{2}$
    - $3\sqrt{2}$
    - $2\sqrt{2}$
  - The value of  $\int_C 5y \, dx + 6x \, dy$  over the circle  $x^2 + y^2 = 1$ 
    - $3\pi$
    - $4\pi$
    - $\pi$
    - $\pi^2$
  - $\iiint_V dv =$ 
    - Volume of the given surface
    - Area of cross section
    - 1
    - 0
  15. Evaluate:  $\int_C \frac{z^4 + z^2 + z + 1}{z + 4} dz$  where  $C$  is the circle  $|z| = 1$

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