

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
 - $\frac{x^2}{2}$
 - $\frac{x^{-2}}{2}$
 - $\frac{x^{-2}}{-2}$
 - $\frac{x^2}{-2}$
 - 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 $x^2 + y^2 = 1$
 - 3π
 - 4π
 - π
 - π^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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