MODEL QUESTION PAPER – 4
with Detailed Solutions

1. If atleast one eigen value is zero and the remaining are negative then the quadratic form is
   1) positive definite
   2) negative definite
   3) positive semidefinite
   4) negative semidefinite

2. Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 3 & 6 & 9 \end{bmatrix}$ is
   1) 0
   2) 2
   3) 1
   4) 3

3. A square matrix A is said to be non-singular if
   1) 0
   2) $|A| = 0$
   3) $|A| \neq 0$
   4) Scalar matrix

4. If A is a non singular matrix of order 4 then Rank of A =
   1) 3
   2) 4
   3) 2
   4) 1

5. If three points (x_r, y_r), $r = 1, 2, 3$ are vertices ofan equilateral triangle then $\begin{bmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{bmatrix}$ has rank
   1) 2
   2) 1
   3) 3
   4) 0

6. The function f(x, y) has a maximum at (a, b) if $\left(\frac{\partial f}{\partial y}\right) = 0$, $\frac{\partial f}{\partial y} = 0$ and
   1) $\frac{\partial^2 f}{\partial^2 x} \cdot \frac{\partial^2 f}{\partial^2 y} + \frac{\partial^2 f}{\partial x \partial y} = 0$ and $\frac{\partial^2 f}{\partial x^2} < 0$
   2) $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 f}{\partial x \partial y}\right)^2 > 0$ and $\frac{\partial^2 f}{\partial x^2} < 0$
   3) $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 f}{\partial x \partial y}\right)^2 > 0$ and $\frac{\partial^2 f}{\partial x^2} > 0$
   4) $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \frac{\partial^2 f}{\partial x \partial y} > 0$

7. Solve: $p \tan x + q \tan y = \tan z$
   1) $f(\tan x, \tan y) = 0$
   2) $f(\cos x, \cos y) = 0$

3) $f\left(\frac{\sin x}{\sin y}, \frac{\sin y}{\sin z}\right) = 0$
4) $f\left(\frac{\cos x}{\cos y}, \frac{\cos y}{\cos z}\right) = 0$

8. Particular integral of $(D^2 + 16)y = \cos 4x$ is
   1) $\frac{x}{8} \cos 4x$
   2) $\frac{x}{8}\sin 4x$
   3) $x \cos 4x$
   4) $x \sin 4x$

9. Particular integral of $(D^2 + 1)y = e^{-x}$ is
   1) $\frac{e^x}{2}$
   2) $\frac{e^{-x}}{2}$
   3) $\frac{e^{-x}}{-2}$
   4) $\frac{e^x}{-2}$

10. If $z = \log(e^x + e^y)$ then $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 z}{\partial x \partial y}\right)^2 =$
    1) 4
    2) 3
    3) 2
    4) 0

11. If $ax\,i + by\,j + cz\,k$ where a, b, c are constraints, then $\iint_S \vec{F} . \hat{n}\, ds$ where S is the surface of the unitsphere is
    1) $(a+b+c)$
    2) $p(a+b+c)$
    3) $\frac{4\pi}{3}(a+b+c)$
    4) 0

12. Find the directional derivative of $\phi = 2xy + 5yz + zx$ at the point (1, 2, 3) in the direction $3i - 5j + 4k$
    1) $-2\sqrt{2}$
    2) $\sqrt{2}$
    3) $3\sqrt{2}$
    4) $2\sqrt{2}$

13. The value of $\int_C 5y\,dx + 6x\,dy$ over the circle $x^2 + y^2 = 1$
    1) 3π
    2) 4π
    3) π
    4) π^2

14. $\iiint_v dv =$
    1) Volume of the given surface
    2) Area of cross section
    3) 1
    4) 0

15. 15. Evaluate: $\int_c \frac{z^4 + z^3 + z^2 + z + 1}{z + 4}\,dz$ where C is the circle $|z| = 1$

Mathematics 1 For Engineering Model Question Paper

David Kirk

Mathematics 1 For Engineering Model Question Paper:

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