



OBJECTIVE PART

Time Allowed: 30 Min.

Marks: 20

- Q. No. 1 Choose the right option for the followings MCQs. Erasing and cutting not allowed for MCQs. (1x20)
- Which of the following is one of the side lengths of a triangle with vertices $A(2, 4, -1)$, $B(4, 5, 1)$, $C(3, 6, -3)$?
 a) $3\sqrt{2}$ b) $2\sqrt{2}$ c) $2\sqrt{3}$ d) $3\sqrt{3}$
 - Every affine set is of dimension 1 in $\mathbb{R}^3$ is a _____
 a) Group b) Linear set c) A line d) none of these
 - A polyhedron is the intersection of a _____ set of linear equations and inequalities.
 a) Finite b) Infinite c) Uncountable d) None of these
 - If A is a square matrix and the rows of A form an orthonormal set then A is _____
 a) Orthogonal b) Inverse c) Identity d) both c & b
 - Let $T: U \rightarrow V$ be a linear transformation then the set of range of T , $R(T)$ is subspace of _____
 a) V b) U c) Both U & V d) none of these
 - An affine set $A \subset \mathbb{R}^3$ with dimension 2 is a _____
 a) Line b) Plane c) Subspace d) none of these
 - Let $W = \{(1, 4, -1, 3), (2, 1, -3, -1), (0, 2, 1, -5)\}$ be linearly independent & spanning set, what is the dimension for W ?
 a) 4 b) 3 c) 2 d) none of them
 - Let $A \subset \mathbb{R}^n$ be affine set, m is the minimum number of rows of a full row rank equality system containing A , then $\dim(A)$ is _____
 a) $n + m$ b) $n - m$ c) $n + m - 1$ d) none of these
 - Dimension of affine set is _____ to dimension of its associated linear set.
 a) Equal b) Greater c) Smaller d) Square
 - How many types of isometry are there in $\mathbb{R}^3$?
 a) 3 b) 4 c) 5 d) 2
 - What is the norm of $\left(\frac{1}{2}, -\frac{1}{4}, \frac{1}{3}, \frac{1}{6}\right)$ on $\mathbb{R}^4$ with respect to usual inner product on $\mathbb{R}^4$?
 a) $\frac{\sqrt{6}}{12}$ b) $\frac{\sqrt{65}}{2}$ c) $\frac{65}{12}$ d) $\frac{\sqrt{65}}{12}$
 - For what value of k the expression $\langle u, v \rangle = x_1v_1 - 3x_2v_2 - 3x_3v_3 + 8x_4v_4$ is an inner product on $\mathbb{R}^4$?
 a) $k = 9$ b) $k \leq 9$ c) $k \geq 9$ d) $k > 9$
 - Consider a mapping $f: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ defined by $f(x, y) = (-x, -y)$ then which of the following suites for f ?
 a) Rotation b) Translation c) Reflection d) Glide reflection
 - If the unit vectors i, j, k are the three edges of OAB, OBC, OCA of a unit cube then what is the vector represented by diagonal AB in the cube?
 a) $\frac{1}{\sqrt{3}}(1, -1, 1)$ b) $\frac{1}{\sqrt{3}}(-1, -1, 1)$ c) $\frac{1}{\sqrt{3}}(1, -1, -1)$ d) $\frac{1}{\sqrt{3}}(-1, 1, -1)$
 - Let $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ be a transformation defined by $T(x_1, x_2) = (x_1 + 1, x_2)$ then T is _____
 a) Linear b) Nonlinear c) Rotation d) Reflection
 - Every affine set is obtained from a linear set by its _____
 a) Rotation b) Translation c) Reflection d) None of these
 - Which of the following vectors is orthogonal to both $(1, 1, 2)$ and $(0, 1, 3)$?
 a) $\frac{1}{\sqrt{11}}(1, -3, 1)$ b) $\frac{1}{\sqrt{11}}(1, 3, 1)$ c) $\frac{1}{\sqrt{11}}(-1, 3, 1)$ d) $\frac{1}{\sqrt{11}}(1, 3, -1)$
 - If n is maximum number of affinely independent points in Affine set A then what is the value of $\dim A$?
 a) n b) $n + 1$ c) $n - 1$ d) $n - 2$
 - What is the division of a line segment joining the points $(5, 4)$ and $(1, 3)$ in the ratio 2:3?
 a) $\frac{1}{5}(17, 18)$ b) $\frac{1}{5}(15, 12)$ c) $\frac{1}{5}(13, 6)$ d) $\frac{1}{5}(7, 8)$
 - Affine set is a system of solution _____
 a) Linear system b) Homogeneous system c) Transcendental system d) none of these

SUBJECTIVE PART

Time Allowed: 20 Min.

Marks: 30

Never Attempt all five questions all questions carry equal marks.

Q. No.2

- Prove that $A = \text{Affine span}\{v_1, v_2, v_3, \dots, v_n\}$ is an affine subspace. (10)
- The dimension d of a nonempty affine set A is equal to $n - m$ where m is the minimum number of rows of a full row-rank equality system containing A . (10)

Q. No.3

- Prove that very orthonormal system $\{u_1, u_2, u_3, \dots, u_n\}$ is linearly independent, and the vector $w = v - \sum_{i=1}^n \langle v, u_i \rangle u_i$ is orthogonal to each u_i , $1 \leq i \leq n$, for all $v \in V$. (10)
- Check whether $W = \{(x, y, z) : x + y + z = 0\}$ is the subspace of $\mathbb{R}^3$. (10)

Q. No.4

- Prove that a rotation about the origin τ is an isometry in plane. (10)
- Discuss the linearity of the transformation: $T(x_1, x_2, x_3) = (x_1 + 1, x_2 + x_3)$. (10)

Q. No.5

- Prove that in a quadrilateral the straight lines joining the mid points of sides taken in order form a parallelogram. (10)
- Prove that the straight line joining the mid-points of two non-parallel sides of a trapezium is parallel to the other sides and equals half their sum. (10)

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