

[5215] - 201
S.Y.B.Sc. (Regular)
MATHEMATICS
MT-221: Linear Algebra
(2013 Pattern) (Semester - II) (81112) (Paper - I)

Time : 2 Hours]

[Max. Marks :40

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

Q1) Attempt any FIVE of the following:

[10]

- a) Is the set $W = \{(1, 1, 3), (2, 2, 6)\}$ linearly dependent? Justify.
- b) Let $W = \{(x, y, z), \in \mathbb{R}^3 / x = 0 \text{ or } y = 0\}$. Is W a subspace of \mathbb{R}^3 ? Why?
- c) Define Linear transformation.
- d) In an Euclidean inner product, find cosine of the angle between the vector's $\vec{u} = (1, 0)$ and $\vec{v} = (0, 1)$.
- e) State dimension theorem for Linear transformation.
- f) Find norm and distance between the vectors $\vec{u} = (1, 0, 1)$ and $\vec{v} = (-1, 1, 0)$.
- g) For any $a, b \in \mathbb{R}, \theta \in \mathbb{R}$, show that $(a \cos \theta + b \sin \theta)^2 \leq a^2 + b^2$.

Q2) Attempt any two of the following:

[10]

- a) Prove that any two bases of finite dimensional vector space V have same number of elements.
- b) Find range and Kernel of $T: \mathbb{R}^2 \rightarrow \mathbb{R}^3$ defined by $T(x, y) = (x, x + y, y)$.
- c) Show that the set $S = \{(1, 1, 2), (1, 2, 5), (5, 3, 4)\}$ do not form basis for \mathbb{R}^3 .

P.T.O.

Mathematics Linear 43651f Paper 2013

Siddappa N.Byrareddy



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