

Total No. of Questions : 4]

SEAT No. :

21267

P-5126

[Total No. of Pages : 1

[6187]-533

T.E. (Artificial Intelligence & Data Science) (Insem.)

PATTERN RECOGNITION (Elective - I)

(2019 Pattern) (Semester - I) (317522(B))

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1) a) Draw and Explain Structure of typical Pattern Recognition system? [5]
- b) Describe Pattern and feature with suitable example. [5]
- c) Explain the feature selection process in detail. [5]

OR

- Q2) a) Compare Classification and Recognition in Pattern Recognition? [5]
- b) Differentiate SyntPR and NeurPR approaches? [5]
- c) Identify the Procedure for Pattern Recognition system Engineering? [5]

- Q3) a) Describe the different approaches to Developing StatPR Classifiers? [5]
- b) Discuss how to Generate Feature Vector with Density function? [5]
- c) Define and Explain Discriminant function? [5]

OR

- Q4) a) Describe any simple example of Statistical Model? [5]
- b) Explain unsupervised Learning Technique in Pattern Recognition? [5]
- c) Draw & Explain Pattern Vector Classification Approach? [5]

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