

M.Sc. - II (Computer Science) Second Semester Old
2MSC-4.1 - Elective-I - Pattern Recognition Paper-IV

P. Pages : 2

Time : Three Hours



GUG/W/18/2866

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answers related to questions.

1. EITHER:

- a) What is pattern Recognition? Explain. 8
- b) Explain Normal Density and Discriminates functions. 8

OR

- c) Describe Bayesian Decision theory with suitable example. 8
- d) Explain Discreate features in detail. 8

2. EITHER:-

- a) Describe parameter estimation methods? 8
- b) Explain the following: 8
 - 1) Evaluation
 - 2) Decoding and learning.

OR

- c) Explain the following: 8
 - 1) Accuracy
 - 2) Dimension.
- d) Describe first order Markov models in detail. 8

3. EITHER:-

- a) What is Density Estimation? Explain. 8
- b) Describe Fuzzy classification in detail. 8

OR

- c) What is Parzen-Window method? Explain. 8
- d) Describe perception in detail. 8

4. EITHER:-

- a) What is feed forward classification? Explain. 8
- b) What is clustering? Explain Hierarchical clustering in detail. 8

OR

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|----|---|---|
| c) | Explain Decision trees in detail. | 8 |
| d) | Describe Graph-Theory method. | 8 |
| 5. | Solve all questions: | |
| a) | What is classifier? Explain. | 4 |
| b) | Describe maximum likelihood estimation. | 4 |
| c) | Explain probabilistic Neural Network? | 4 |
| d) | Explain Application Normal Mixture? | 4 |

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