

Total No. of Questions : 4]

SEAT No. :

PC-126

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[6360]-132

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

HUMAN COMPUTER INTERFACE (Elective - I)

(2019 Pattern) (Semester - I) (310245 B)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams must be drawn whenever necessary.
- 4) Make suitable assumption whenever necessary.

- Q1)** a) Explain Good and Poor design. List benefits of Good design. [5]
b) Explain I/O channels? [5]
c) What is reasoning? Explain any two types of Reasoning. [5]

OR

- Q2)** a) Explain Human Memory. [5]
b) Explain : Emotion, Individual Difference. [5]
c) What is Interactivity? Explain the context of Interaction. [5]

- Q3)** a) What are Interaction style? Explain any two. [5]
b) Explain the eight Golden Rules of Interface Design. [5]
c) Explain the different guidelines for organizing the display. [5]

OR

- Q4)** a) What are different human considerations factors in a design? [5]
b) Explain the different techniques for Getting the user's attention. [5]
c) Explain Important Human Characteristics in Design. [5]

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SEAT No. :

PC-125

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[6360]-131

T.E. (Artificial Intelligence and 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) Explain the Pattern. Pattern recognition and its application. [5]
b) What are the different models or approaches of pattern recognition? [5]
c) Explain feature extraction? [5]

OR

- Q2)** a) What is design cycle of pattern recognition? [5]
b) What is Neural Pattern Recognition Approach? [5]
c) Explain in details of Pattern Recognition System & what need of pattern recognition system. [5]

- Q3)** a) Explain the statistical pattern recognition? [5]
b) What are the different types of pattern classification? [5]
c) What is an unsupervised learning approach in pattern recognition? [5]

OR

- Q4)** a) What is the Gaussian distribution classification? [5]
b) What are discriminate function and its uses? [5]
c) What are risk and errors in measurement of classification performance? [5]

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