

Total No. of Questions: 8]

SEAT No. : B190954274

PA-992

[5927]-466

[Total No. of Pages : 2

B.E. (Honors)

**MACHINE LEARNING FOR INTERNET OF THINGS
(2019 Pattern) (Semester-VII) (410601)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Q1 or Q2 and Q3 or Q4 and Q5 or Q6 and Q7 or Q8.
- 2) Figures to the right indicate full marks.
- 3) Neat diagram must be drawn whenever necessary.
- 4) Assume suitable data if necessary.

- Q1)** a) Explain SVM algorithm with an example. [6]
b) Explain random forest algorithm with working. [6]
c) Why are Boltzmann Machines called restricted? Give detail explanation [6]

OR

- Q2)** a) Explain CNN with any one application. [6]
b) Compare CNN with RNN. [6]
c) What are the steps to apply PCA in computer vision? [6]
- Q3)** a) What is Edge Computing? Why are edge devices essential for IoT? [6]
b) Explain Algorithm optimization in Least-Squares-Solver for Shallow Neural Network. [6]
c) Explain the concept of distributed machine learning. [5]

OR

- Q4)** a) What is smart building? What are the analytics advantages? [6]
b) Explain Hardware Implementation in Least-Squares-Solver for shallow Neural Network. [6]
c) Explain the concept of Machine Learning Accelerator. [5]
- Q5)** a) Explain any one application for deep learning for sensor data. [9]
b) For Forecasting future sensor output which deep learning architecture can be used? Why . [9]

OR

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- Q6)** a) Explain any one application for Embedded deep learning. [9]
b) For Pre-training the network which deep learning architecture can be used? Why? [9]

- Q7)** a) Write a short Note on IoT for Agriculture? [9]
b) What are different benefits and examples of smart transportation? [8]

OR

- Q8)** a) Write a Short Note on Remote Patient Monitoring? [9]
b) What do you mean by IoT security using ML? [8]

