Total No. of Questions : 8]

SEAT No. :

PB2472

[Total No. of Pages : 2

[6263]-346
B.E. (Robotics & Automation)
INTERNET OF THINGS AND MACHINE LEARNING
(2019 Pattern) (Semester - VII) (Elective - IV) (411504 B)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right side indicate full marks.***
4) ***Assume suitable data if necessary.***

Q1) a) What are the types of cloud storage? **[6]**

b) What are the difficulties of medium access in wireless networks? **[6]**

c) How to use Python to analyze data? **[5]**

OR

Q2) a) What cloud storage requirements should you consider? **[6]**

b) What is medium access in wireless communication? **[6]**

c) What is data cleaning? **[5]**

Q3) a) What is Automated Machine Learning? **[6]**

b) Why is the Machine Learning Life Cycle Important? **[6]**

c) What is data collection and preprocessing? **[5]**

OR

Q4) a) What is Machine Learning? **[6]**

b) What is difference between Artificial intelligence and Machine Learning? **[6]**

c) Explain any one clustering algorithm. **[5]**

Q5) a) Give the Specifications of ESP8266 Wi-Fi Module. **[6]**

b) Explain Dynamic vs. static web servers. **[6]**

c) How to send sensor data to web server? **[6]**

OR

P.T.O.

Q6) a) Which are the steps to install and configure Apache Http Webserver and PHP module in windows server machine. **[6]**

b) Draw the circuit diagram how to use ESP8266 Wi-Fi Module. **[6]**

c) How do web servers work? **[6]**

Q7) a) State and explain IoT Applications in making smart home. **[6]**

b) What is smart metering? How does IoT work for smart metering? **[6]**

c) Which are the benefits of IoT in automotive industry? **[6]**

OR

Q8) a) Describe patient movement monitoring system architecture in IoT. **[6]**

b) What is a connected car device? How does it work? **[6]**

c) Briefly explain smart agriculture and irrigation system using IoT? **[6]**