

Total No. of Questions : 8]

SEAT No. :

P2305

[Total No. of Pages : 2

[5869]-369

S.E. (Artificial Intelligence and Data Science) (Theory)

INTERNET OF THINGS

(2019 Pattern) (Semester - IV) (217529)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Attempt Questions Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Draw neat and Clean Diagram.
- 3) Assume suitable data, if necessary.

Q1) a) Illustrate the various IoT communication APIs? [8]

b) With the help of following sectors explain how IoT technology is impacting on the end-to-end value chain in the logistics sector : [10]

- i) Route generation & scheduling
- ii) Fleet tracking
- iii) Shipment monitoring
- iv) Remote vehicle diagnostics

OR

Q2) a) Demonstrate the IoT component with a neat diagram. [9]

b) What is Piggybacking? What is the necessity of security and privacy of IoT? [9]

Q3) a) Draw and Explain WSN architecture? [9]

b) Explain any four IoT network protocols? [8]

OR

Q4) a) Explain Machine to Machine Architecture? [9]

b) Explain any four applications of RFID? [8]

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- Q5) a) Explain IoT Information model specification. [9]**
b) Explain Various IoT sim card Technologies [9]

OR

- Q6) a) What are the criterias for selection of controllers in Embedded Products? [9]**
b) What are different security parameters considered while designing any IoT system? [9]

- Q7) a) Discuss various IoT applications in the Agriculture domain. [6]**
b) What is the E-Healthcare system? How IoT is important in E-Health Monitoring application. [6]
c) Discuss various IoT applications in Automotive applications. [5]

OR

- Q8) a) Write a short note on IoT vertical Applications. [6]**
b) Explain Voice Application for IoT Device. [6]
c) Explain Vehicle to Vehicle communication. [5]

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