

Total No. of Questions : 8]

SEAT No. :

P1594

[Total No. of Pages : 2

[6002]-224

S.E. (Artificial Intelligence & Data Science)

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 Diagrams.*
- 3) *Assume suitable data, if necessary.*

- Q1)** a) Explain Next Generation Kiosks & smart vending machines in detail? **[9]**
b) Justify how the asset management impacts on end to end users by integrating IOT technology? **[9]**

OR

- Q2)** a) Explain in brief Smoke for gas detection and Air quality monitoring? **[10]**
b) How is security a big concern in IOT? How do IDS work in IoT? **[8]**

- Q3)** a) Differentiate M2M and IoT? Also differentiate COAP and MQTT? **[8]**
b) Explain the IOT System working block with the help of Control units, Communication Modules and Sensors? **[9]**

OR

- Q4)** a) Explain Link layer protocol like ethernet, Wi-Fi, WiMax, Zigbee in Protocol architecture? **[9]**
b) How information is exchanged in real time without human intervention? **[8]**

- Q5)** a) Describe Cloud of Things. Explain how cloud is an integration of Grid Computing and SOA. **[10]**
b) Explain on Devices Security and Privacy of IoT cloud. Why do we need IoT Security? **[8]**

OR

- Q6)** a) Describe the need of semantic web technology and business impacting IoT? **[10]**
b) Explain in detail vulnerabilities of Internet of Things. **[8]**

P.T.O.

- Q7) a)** Discuss Cloud computing. Explain the setup of a cloud environment in an IoT? [10]
- b) What are IoT design ethics, explain? [7]

OR

- Q8) a)** How does Vehicle-to-Vehicle (V2V) communication enhance safety and efficiency in the internet of Things (IoT) ecosystem? [10]
- b) Elaborate on how you will use IoT for remote healthcare. [7]

