

Total No. of Questions : 8]

SEAT No. :

**PB3638**

**[6261]-46**

[Total No. of Pages :2

**S.E. (AI & DS)**

**INTERNET OF THINGS**

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

*Time : 2½ Hours ]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Attempt 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)** Explain Request Response model, Publish Subscribe model and Push/Pull Model? **[9]**

b) Justify how Retail Sector impacting on end to end user by integrating IOT technology. **[9]**

OR

**Q2) a)** Explain in brief Telematics and Telemetry model? **[10]**

b) How is security a big concern in IOT? What kind of development is there in market to make IoT more secure? **[8]**

**Q3) a)** Explain SNMP and NETCONF in detail. **[8]**

b) Explain the IOT system working block with the help of Control units, Communication Modules and Sensors? **[9]**

OR

**Q4) a)** Draw IOT protocol structure and explain IPv4, 6LoWPAN in detail?[9]

b) How information is exchanged in real time without human intervention?[8]

**P.T.O.**

**Q5) a)** Explain how you will design an energy management system in a commercial building using IoT. [10]

b) Elaborate on how you will use IoT for remote healthcare. [8]

OR

**Q6) a)** What is the Web of things (WOT)? Draw and explain the cloud of things architecture. [10]

b) What is Industrial IoT? How is it different from Conventional IoT? [8]

**Q7) a)** Explain Smart home and Smart city applications in view of IoT. [10]

b) How will IoT be used to protect environmental loss? [7]

OR

**Q8) a)** Explain use of IoT in the agriculture field. Explain it with a case study. [10]

b) Write a note on Industrial IoT. [7]

