

Total No. of Questions : 8]

SEAT No. :

PB-4277

[Total No. of Pages : 2

[6264]-256

M.E. (E & TC - IoT and Sensor System)
IoT ARCHITECTURE AND PROTOCOLS
(2017 Pattern) (Semester - II) (504610)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Answer any five questions out of eight.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Explain the IoT architecture and throw the lights on its standards. [5]
b) Explain the M2M and IoT technology related to IoT and Sensor System. [5]

- Q2)** a) Explain about the Reference model and Architecture of IoT with a neat diagram. [5]
b) Explain the Functional and Informational view of IoT reference architecture. [5]

- Q3)** a) Explain the PHY/MAC Layer and how it is fruitful to IoT and Sensor systems. [5]
b) Explain the wireless HART and ZWave in the context of IoT data networks. [5]

- Q4)** a) What is a Transport layer? And how does it work? [5]
b) What do you understand by Session layer? What is this responsible for? [5]

- Q5)** a) Why is Service layer important in IoT? Name two Service layers. [5]
b) What is MQTT? And why is it important for IoT? [5]

P.T.O.

- Q6)** a) What is Data link layer? How is it different from the Network layer? [5]
b) What is 3GPP MTC? Why is this important in IoT? [5]
- Q7)** a) Name two Data Visualization tools for IoT applications along with their description? [5]
b) Explain the Interactions and Remote controls related with IoT reference architecture. [5]
- Q8)** a) Explain the Knowledge Management related to the IoT architectural considerations. [5]
b) Explain the Main Design Principles of IoT building architecture. [5]
