

Total No. of Questions : 10]

SEAT No. :

P4545

[Total No. of Pages : 2

[4959] - 1144

B.E. (Information Technology) (Elective - IV(d))

INTERNET OF THINGS

(2012 Pattern) (Semester - II)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :-

- 1) *Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
- 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 Key technologies for Internet of Things? **[6]**

b) What types of things get connected in IoT? **[4]**

OR

Q2) a) Explain the working principle of RFID tag. **[5]**

b) Write in detail applications of Internet of Things. **[5]**

Q3) a) Explain security and QoS for WSN. **[6]**

b) What are basic components of sensor network? **[4]**

OR

Q4) a) Explain in detail WSN specific IoT applications. **[5]**

b) Explain in detail challenges for WSN. **[5]**

Q5) a) Explain in detail clustering principal in Internet of Things. **[9]**

b) Explain in detail data synchronization techniques in Internet of Things. **[9]**

OR

P.T.O.

- Q6)** a) Explain in detail design guidelines for Internet of Things. [8]
b) What is Identity management in Internet of Things? Explain any 2 Identity management techniques of Internet of Things. [10]

- Q7)** a) What is Internet of Things security tomography? Explain in detail layered attacker model. [8]
b) Explain in detail security requirement of Internet of Things. [8]

OR

- Q8)** a) Why security required in IoT? Explain in detail various security model in Internet of Things. [10]
b) Write Non repudiation and availability in Internet of Things. [8]

- Q9)** a) Write applications of Internet of Things for e-health body area network. [6]
b) Explain in detail application of Internet of Things in smart metering and advanced metering infrastructure. [8]

OR

- Q10)** a) Write in detail business model scenario for Internet of Things. [6]
b) Explain in detail application of Internet of Things in city automation and home automation. [8]

