

Total No. of Questions : 10]

SEAT No. :

P2077

[Total No. of Pages : 2

[5059] - 684

B.E. (I.T.) (End Semester - II)

Internet of Things

(2012 Pattern) (Elective - IV)

Time : 2.30 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) Discuss area of development and standardization in Internet of Things. [6]

b) Explain in detail HLSA IoT framework. [4]

OR

Q2) a) Explain in detail IoT Architecture with neat diagram. [6]

b) Write in detail applications of Internet of Things. [4]

Q3) a) What are the challenges and issues in RFID system? [6]

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

OR

Q4) a) Discuss various components of RFID system. [6]

b) Explain challenges for WSN. [4]

P.T.O.

- Q5)** a) Explain in detail design guidelines for Internet of Things. [9]
b) Explain in detail data synchronization techniques in Internet of Things. [9]

OR

- Q6)** a) Explain in detail clustering principal in 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. [10]
b) Explain in detail vulnerabilities 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) Explain in detail access control and message integrity of Internet of Things. [8]

- Q9)** a) Write in detail business model scenario for Internet of Things. [6]
b) Explain in detail business model and business innovation in Internet of Things. [8]

OR

- Q10)** a) Write applications of Internet of Things for e-health body area network. [6]
b) Explain in detail application of Internet of Things in city automation and home automation. [8]

