

Total No. of Questions : 8]

SEAT No. :

P4562

[Total No. of Pages : 2

[5870]-1221

T.E. (Computer Engineering)

HONORS - INTERNET OF THINGS

Internet of Things Architectures, Protocols and Systems

Programming

(2019 Pattern) (Semester - II) (310603)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q 4, Q 5 or Q 6.
- 2) Neat Diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.
- 4) Use of Non-Programmable scientific Calculator is allowed.

- Q1)** a) Describe in brief transport layer protocols. [6]
b) Explain in detail DCCP. [6]
c) Describe in detail SCTP. [5]

OR

- Q2)** a) Explain the working of DTLS. [6]
b) Explain in brief session layer protocols. [6]
c) Explain in detail CoAP. [5]

- Q3)** a) Explain in detail vulnerabilities security requirements and threat analysis. [6]
b) What is IoT Security Tomography? Explain. [6]
c) Describe IoT layered attacker model in detail. [6]

OR

- Q4)** a) Describe Identity Management and Establishment in detail. [6]
b) Describe IoT Security Models. [6]
c) Explain in brief IoT Security Protocols. [6]

P.T.O.

- Q5)** a) Describe the components of Arduino. [6]
b) Describe the role of Web/Cloud Services for IoT development. [6]
c) Explain the use of APIs. [5]

OR

- Q6)** a) Describe the components of Raspberry Pi. [6]
b) Explain essential features of web APIs. [6]
c) Describe the components of Intel Galileo [5]

- Q7)** a) Describe the role of IoT for Home Automation. [6]
b) Describe the role of IoT for Agriculture applications. [6]
c) Describe the role of IoT for Telecom/5G. [6]

OR

- Q8)** a) Describe role of IoT for Smart Cities development. [6]
b) Describe the role of IoT for Industry. [6]
c) Describe the role of IoT for Health and Lifestyle [6]
