

Total No. of Questions : 4]

SEAT No. :

PE-235

[Total No. of Pages : 2

[6580]-596

B.E. (Electronics & Telecommunication Engineering)
MODERNIZED IOT (Elective - III)
(2019 Pattern) (Semester - VII) (Insem Exam) (404184 E)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2 and Q3 or Q4*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume suitable data, if necessary.*

Q1) a) Explain IoT life cycle in detail. **[6]**

b) Draw and explain physical design of IoT. **[5]**

c) Define the term IOE with regards to its several pillars. **[4]**

OR

Q2) a) Define sensors with their characteristics. Explain how to integrate them with actuators in smart home automation system. **[6]**

b) Write a short note on communication models used in IoT system. **[5]**

c) Explain any two applications of IoT. **[4]**

P.T.O.

Q3) a) Analyze the role of M2M communication in enhancing the functionality of IoT systems. How does M2M complement IoT in an industrial automation scenario? [6]

b) Explain the role of gateways in an IoT architecture. How do gateways contribute to the security, data processing, and communication efficiency of an IoT system? [5]

c) Write a short note on everything as a service XAAS. [4]

OR

Q4) a) List the main design principles for IoT systems. [6]

b) Define IoT architecture and list its main components. [5]

c) Compare the differences between M2M communication and IoT system. [4]

