

Total No. of Questions : 4]

SEAT No. :

PE28

[Total No. of Pages : 1

[6579] 329

**T.E. (Computer Engineering) (Computer Science) (Insem)
INTERNET OF THINGS AND EMBEDDED SYSTEMS
(2019 Pattern) (Semester - I) (310245 (A) (Elective-I)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4.
- 2) Figures to the right indicate full marks.

- Q1)** a) List and explain the characteristics of the Embedded System. [5]
b) What is System-On-Chip? Explain its features. [5]
c) Discuss the types of microcontrollers [5]

OR

- Q2)** a) Describe the societal benefits of IoT with the help of suitable applications. [5]
b) Compare & contrast between microprocessor & microcontroller. [5]
c) Discuss the components of the embedded system with a diagram [5]

- Q3)** a) Write a definition of IoT and characteristics of IoT [5]
b) How Cloud computing technology play role in IoT application [5]
c) Discuss the working of the request-response communication model with example. [5]

OR

- Q4)** a) What are the building blocks of the IoT system? [5]
b) Compare REST and Websocket communication model. [5]
c) Enlist IoT deployment levels and explain IoT level 4 with suitable Application. [5]

