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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]**