Total No. of Questions : 4]

P8559

Oct-22/TE/Insem-529

T.E. (Computer Engineering) INTERNET OF THINGS AND EMBEDDED SYSTEMS

(2019 Pattern) (310245(A)) (Semester - I) (Elective - I)

[Max. Marks : 30

[Total No. of Pages : 2

SEAT No. :

Instructions to the candidates :

Time : 1 Hour]

- Attempt Q1 or Q2, Q3 or Q4. 1)
- Neat diagram must be drawn wherever necessary. 2)
- 3) Assume suitable data if necessary.

What is an embedded system? What are the characteristics of an *01*) a) embedded system? [5]

Introduce any embedded processor in brief. Explain its architecture.[5] b)

Differentiate between General Computer and embedded devices. c) [5]

Define SOC. Illustrate SOC types and its examples. *Q2*) a) [5] Illustrate the different components of Microcontroller. b) [5] c)

OR

Explain the concept of RTOS.

Explain the concept of 'Things' in IoT with suitable examples. **Q3**) a) [5]

- Enlist and Demonstrate societal benefits of lo [5] b)
- What are the challenges in implementing IoT Applications? c) [5]

P.T.O.

- Enlist IoT deployment levels and explain IoT level 2 with suitable **Q4**) a) application. [5]
 - Define IoT and explain its importance in the real-world problem solving. b) [5]

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[5]

Anon and a second Illustrate the physical design of IoT with suitable example.

8

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