SPPU-TE-COMP-CONTENT – KSKA Git

Total No. of Questions : 4]

P8559

SEAT No. :

[Total No. of Pages : 2

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

[5]

[5]

P.T.O.

Instructions to the candidates :

Time : 1 Hour]

- 1) Attempt Q1 or Q2, Q3 or Q4.
- 2) Neat diagram must be drawn wherever necessary.
- 3) Assume suitable data if necessary.
- Q1) a) What is an embedded system? What are the characteristics of an embedded system? [5]
 - b) Introduce any embedded processor in brief. Explain its architecture.[5]
 - c) Differentiate between General Computer and embedded devices. [5]

OR

- Q2) a) Define SOC. Illustrate SQC types and its examples.
 - b) Illustrate the different components of Microcontroller.
 - c) Explain the concept of RTOS.

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

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

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- 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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