Total No. of Questions : 6]

SEAT No. :

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APR - 18/T.E/Insem - 142

T.E. (Computer Engineering)

Embedded System & Internet of Things

(Semester - II) (2015 Pattern)

Time : 1 Hours] *[Max. Marks :30*

Instructions to the candidates:

1) ***Answer any three questions Q1. or Q.2, Q3 or Q4 and Q5 or Q6.***
2) ***Assume Suitable data wherever necessary***
3) ***Figures to the right indicate full marks.***
4) ***Draw neat & labelled diagram wherever necessary.***

Q1) a) Can an electronic tablet be listed as an embedded system? Justify your answer. **[4]**

b) List any four advanced features of ARM core. **[2]**

c) List various levels of IoT system and explain Level 1 IoT system with diagram. **[4]**

OR

Q2) a) Define release time, scheduling time, completion time and run time. **[4]**

b) List various IoT communication models **[2]**

c) List different IoT enabling technologies which play a key-role and explain any of them. **[4]**

Q3) a) Explain purpose and requirements specifications step of IoT system design methodology, consider smart IoT - based home automation system as an example. **[5]**

b) Explain information model specification step of IoT system design methodology, consider smart IoT - based home automation system as an example. **[5]**

OR

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Q4) a) With the help of diagram list and briefly explain the steps involved in the IoT system design methodology. **[5]**

b) Explain process model specification step of IoT system design methodology, consider smart IoT- based home automation system as an example. **[5]**

Q5) a) Draw and explain the four pillars of IoT paradigms. **[4]**

b) Write a python program for blinking LED Using Raspberry pi board **[4]**

c) Explain the concept of the Horizontal and verticals in IoT. **[2]**

OR

Q6) a) Write a short note on 5A and 3I characteristics of IoT. **[3]**

b) List and explain various features of Raspberry Pi board (Model B Revision 2). **[4]**

c) List any six IoT devices available in market. **[3]**

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