INSTITUTE OF AERONAUTICAL ENGINEERING

(AUTONOMOUS)

Code No:

| MODEL QUESTION PAPER - II |

M.Tech I Semester Regular Examinations, Feburary 2017

INTERNET OF THINGS AND EMBEDDED SYSTEMS

(Embedded Systems)

Time: 3 hours   Max. Marks: 70

Answer ONE Question from each Unit All Questions Carry Equal Marks All parts of the question must be answered in one place only

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1. (a)   Describe communication modules used in IOT ?   [7M]

    (b)   Define the concept of security and privacy IOT?   [7M]

(or)

2. (a)   Explain the Evolution from RFID based EPC network to agent based IOT?   [8M]

    (b)   Classify   the various architectures used in IOT environment?   [6M]

(or)

3. (a)   Distinguish between zigbee and Wi-Fi technology modules?   [8M]

    (b)   Illustrate the context of EURIDICE - Business Impact in an IOT?   [6M]

(or)

4. (a)   Explain boot and post boot configuration in microcontroller IOT ?   [8M]

    (b)   Identify the technical requirements satisfying the new demands of production in IOT?   [6M]

(or)

5. (a)   Discuss the data structures used in an IOT?   [7M]

    (b)   Explain the debugging tools used in IOT environment?   [7M]

(or)

6. (a)   Describe Di-Y in the network society of an IOT ?   [7M]

    (b) Sketch the design of an IOT architecture ?   [7M]

(or)

7. (a)   Explain briefly the application of ontology engineering in internet of things?   [8M]

    (b)   List out various software agents in an IOT?   [6M]

(or)

8. (a) Explain about Web enabling constrained devices in IOT? [8M]

   (b) Define CLI based and HTTP based Protocol management in an IOT? [6M]

(or)

9. (a) Design REST full Smart Things and web enabling constrained devices in IOT environment? [7M]

   (b) Explain the concept of data synchronization used in IOT? [7M]

(or)

10 (a) Desribe the case study of be close-elderly monitoring in an IOT? [8M]

   (b) Summarize the set up from micro controller to cloud in IOT? [6M]