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Question Paper Code: BES006



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

M.Tech II Semester End Examinations (Regular) - July, 2017

Regulation: IARE-R16

INTERNET OF THINGS

(Embedded Systems)

Time: 3 Hours

Max Marks: 70

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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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## UNIT – I

1. Explain briefly about various security challenge issues in an IoT. [14M]
2. (a) List and explain the challenges and issues of IoT. [7M]  
(b) Differentiate between Zigbee and Wifi communication technologies. [7M]

## UNIT – II

3. (a) Discuss the buffer and timer management for IoT. [7M]  
(b) Explain about software partitioning in an IoT. [7M]
4. (a) Explain saving and restoring the configuration. [7M]  
(b) Discuss about debugging protocols in an IoT. [7M]

## UNIT – III

5. (a) Compare the types of information exchange and the related time of synchronization for various types of network architectures. [7M]  
(b) What are the various communication scenarios that occur in a product lifecycle? Explain. [7M]
6. (a) Describe the ways of impact of IoT on to the system agility. [7M]  
(b) List out the requirements for an Internet of Things addressing scheme. Briefly explain any two properties that an addressing scheme for the Internet of Things devices should have. [7M]

## UNIT – IV

7. (a) Give the three ways on how “making is connecting” in the context of DiY. [7M]  
(b) Draw the EURIDICE knowledge base conceptual model and explain. [7M]
8. (a) Draw and explain network architecture and middleware for Wireless Sensor and Actuator Networks in DiYSE. [7M]  
(b) Define multi-agent Systems in an IoT. What are its properties? [7M]

## UNIT – V

9. (a) Draw the simplified component architecture of the social access controller (SAC) and explain its functionality. [7M]
- (b) Write short notes on future web of things, of an IoT [7M]
10. Discuss the case study on be close elderly monitoring of an IoT. [14M]

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