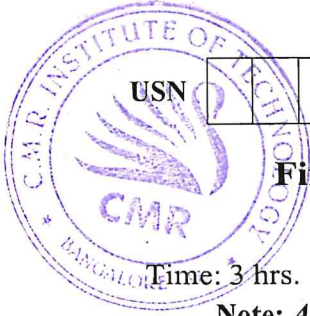


# CBCS SCHEME



16/17MCA552

## Fifth Semester MCA Degree Examination, Aug./Sept.2020 Internet of Things

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Describe the system components of an M2M solution. (08 Marks)  
b. Outline the challenges the technology evolution required to face in the transition from M2M towards IoT. (08 Marks)

OR

- 2 a. Explain the IoT capabilities and implications. (08 Marks)  
b. Classify the differing characteristics of M2M and IoT by considering the business, Technology, Application and service aspects. (08 Marks)

### Module-2

- 3 a. Explain M2M value chain in detail. (06 Marks)  
b. Explain IoT value chain in detail. (10 Marks)

OR

- 4 a. Explain the fundamental roles within information-driven global value chain. (10 Marks)  
b. Explain the key application areas of M2M to IoT. (06 Marks)

### Module-3

- 5 a. Write the main design principles and needed capabilities of IoT. (06 Marks)  
b. Explain the functional layers and capabilities of an IoT solution. (10 Marks)

OR

- 6 a. Describe the deployment scenarios for devices in IoT. (06 Marks)  
b. Explain the gateways and additional tasks in detail. (10 Marks)

### Module-4

- 7 a. Explain the IoT referential model in detail. (10 Marks)  
b. Explain M2M high – level architecture. (06 Marks)

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OR

- 8 a. Explain the IoT referential architecture in detail. (10 Marks)  
b. Explain M2M service capabilities. (06 Marks)

### Module-5

- 9 a. Explain the technical design constraints when developing and implementing M2M and IoT solutions in the real world. (08 Marks)  
b. Explain the commercial building automation evolution cycle. (08 Marks)

OR

- 10 a. Explain SOCRADES integration architecture. (10 Marks)  
b. Explain the commercial building automation today. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

