



# CBCS SCHEME

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18MCA542

Fifth Semester MCA Degree Examination, Jan./Feb. 2021

## Internet of Things

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Define Internet of Things. Explain M2M communication. (10 Marks)  
b. Explain System Components of an M2M solution with example. (10 Marks)

OR

- 2 a. Explain Game Changers with example. (10 Marks)  
b. Distinguish between the main characteristics of M2M and IoT. (10 Marks)

### Module-2

- 3 a. Explain Information Marketplaces with example. (10 Marks)  
b. Describe Global Value Chains with example. (10 Marks)

OR

- 4 a. Explain M2M Value Chain with example. (10 Marks)  
b. Describe the Information-driven global value chain with diagram. (10 Marks)

### Module-3

- 5 a. Explain device properties and types with example. (10 Marks)  
b. What is Gateway? Explain with example. (10 Marks)

OR

- 6 a. Explain Device Management with example. (10 Marks)  
b. Describe Local and Wide Area Networking with example. (10 Marks)

### Module-4

- 7 a. Describe European Telecommunications Standards Institute (ETSI) M2M level architecture with example. (10 Marks)  
b. Explain European Telecommunications Standards Institute (ETSI) M2M service capabilities with example. (10 Marks)

OR

- 8 a. Explain IoT Domain model with example. (10 Marks)  
b. Explain Information model and Function model with example. (10 Marks)

### Module-5

- 9 a. Explain Functional requirements and non-functional requirements with example. (10 Marks)  
b. Explain Sensing and Communication field with example. (10 Marks)

OR

- 10 a. Explain Integrated device design with example. (10 Marks)  
b. Explain Data representation and Visualization with example. (10 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.