



CBCS SCHEME

16/17MCA552

USN

Fifth Semester MCA Degree Examination, June/July 2019 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. Define IOT. Compare characteristics of M2M and IOT. (05 Marks)
b. Explain the following terms:
i) MegaTrends ii) Capabilities iii) Implications (06 Marks)
c. Illustrate the three reasons how M2M and IOT has up taken. (05 Marks)

OR

- 2 a. With neat diagram, explain system components of an M2M solution. (08 Marks)
b. What is Global value chain? Explain the inputs and outputs of an M2M value chain. (08 Marks)

Module-2

- 3 a. Describe the information-driven value chain (I-GVC) for IOT. (08 Marks)
b. Explain the IOT - architecture outline. (08 Marks)

OR

- 4 a. Discuss the emerging applications of IOT. (08 Marks)
b. List and explain the fundamental roles of information-driven global value. (08 Marks)

Module-3

- 5 a. Define device. Explain the properties of device. (06 Marks)
b. Describe how data the managed in M2M. (06 Marks)
c. Mention the basic characteristics of Big data. (04 Marks)

OR

- 6 a. Discuss the key characteristics of cloud computing. (08 Marks)
b. Illustrate the distributed business process in IOT. (08 Marks)

Module-4

- 7 a. Briefly explain the ETSI M2M high level architecture. (10 Marks)
b. Explain the functionality of OGS SWE. (06 Marks)

OR

- 8 a. Give the pictorial representation of class diagram for the following terms:
i) Association ii) Aggregation iii) Generalization (06 Marks)
b. Explain with diagram how mapping between IOT domain model and deployment view is done. (10 Marks)

Module-5

- 9 a. Explain SOA-based device integration. (08 Marks)
b. Explain the evolution of commercial building automation. (08 Marks)

OR

- 10 Write short notes on: (a) SOCRADES (b) IMC – AESOP (16 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.