

CBCS SCHEME



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18MCA542

Fifth Semester MCA Degree Examination, Feb./Mar. 2022 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 IoT. Explain typical M2M solution. (10 Marks)
b. Comparison of main characteristics of M2M and IoT with example. (10 Marks)

OR

- 2 a. Explain implications for IoT with example. (10 Marks)
b. Describe Game changes with example. (10 Marks)

Module-2

- 3 a. Explain IoT value chains, with example. (10 Marks)
b. Explain M2M value chains with example. (10 Marks)

OR

- 4 a. With a neat diagram, explain IoT architecture outline. (10 Marks)
b. Explain emerging industrial structure for IoT. (10 Marks)

Module-3

- 5 a. Explain local and wide area networking with example. (10 Marks)
b. Explain Basic and Advanced device types along with Gateways. (10 Marks)

OR

- 6 a. Explain everything as a service (XaaS) (10 Marks)
b. Explain Business process in IoT with example. (10 Marks)

Module-4

- 7 a. Explain IoT reference model with example. (10 Marks)
b. Explain operational view with example. (10 Marks)

OR

- 8 a. Explain Functional view with example. (10 Marks)
b. Explain Information view with example. (10 Marks)

Module-5

- 9 a. Explain various levels of SOCRADES integration architecture. (10 Marks)
b. Explain service oriented architecture based device integration. (10 Marks)

OR

- 10 a. Explain IMC – AESOP cloud based architecture vision for IOT. (10 Marks)
b. Explain Data representation and visualization with example. (10 Marks)

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.