CBCS SCHEME

USN

18MCA542

Fifth Semester MCA Degree Examination, July/August 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. Explain in detail, M_2M communication.	(06 Marks)
	b. Explain megatrends, capabilities and IOT implications.	(06 Marks)
	c. Explain M_2M approach with an example.	(08 Marks)

OR

2	a. Compare the characteristics of M_2M and IOT.	(10 Marks)
	b. Explain IOT approach with an example.	(10 Marks)

Module-2

3	a. Describe the information driven value chain for IOT.	(10 Marks)
	b. Explain IOT-architecture.	(10 Marks)

OR

4	a. Discuss the emerging applications of IOT.	(10 Marks)
	b. Explain functional layer and capabilities of an IOT solution.	(10 Marks)

Module-3

5	a. Explain various service and deployment of a cloud.	(10 Marks)
	b. Describe how data is managed in M_2M.	(06 Marks)
	c. Mention the Four V's of Big Data.	(04 Marks)

OR

6	a. With a neat diagram, explain how IOT has been integrated with enterprise systems.	(12 Marks)
	b. Explain knowledge management reference architecture.	(08 Marks)

Module-4

7	a. Briefly explain ETSI M_2M high level architecture.	(12 Marks)
	b. Explain functionality of OGS SWE.	(08 Marks)

OR

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

Module-5

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

OR

10	a. Explain the evolution of commercial building automation.	(10 Marks)
	b. Explain IMC-AESOP cloud based architecture vision for IOT.	(10 Marks)

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