CBCS SCHEME
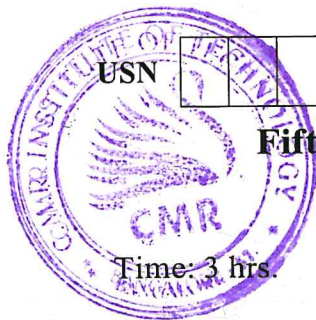
Fifth Semester MCA Degree Examination, Jan./Feb. 2021
Internet of Things

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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