CBCS SCHEME

18MCA542

Fifth Semester MCA Degree Examination, June/July 2023
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 the trends in Information and Communication Technologies.	(10 Marks)
	b.	With neat diagram, discuss IoT and Emerging its applications.	(10 Marks)

OR

2	a.	Explain in detail, M2 M Communication.	(05 Marks)
	b.	Give a summary of Megatrends , Capabilities and IoT implications.	(05 Marks)
	c.	Explain M2 M approach with an example.	(10 Marks)

Module-2

3	a.	With a neat diagram, explain Information driven value chain for IoT.	(10 Marks)
	b.	Explain Architectural design principal for IoT.	(10 Marks)

OR

4	a.	Explain the functional layers and capabilities of an IoT solution.	(10 Marks)
	b.	Explain Global , M2 M and IoT value chains.	(10 Marks)

Module-3

5	a.	Explain Basic and Advanced device types along with Gateways.	(10 Marks)
	b.	Explain Knowledge Reference Architecture for M2 M and IoT.	(10 Marks)

OR

6	a.	Explain everything as a Service (XaaS).	(10 Marks)
	b.	With the help of neat diagram, explain Knowledge Management.	(10 Marks)

Module-4

7	a.	With the help of diagram, explain ETSI M2 M High Level Architecture.	(10 Marks)
	b.	Explain ETSI M2 M Service Capabilities.	(10 Marks)

OR

8	a.	Explain Information description in information view.	(10 Marks)
	b.	In short, explain ITU – IoT reference model with a diagram.	(10 Marks)

Module-5

9	a.	Explain how Remote Interaction and Control over IoT Applications.	(10 Marks)
	b.	Explain Evaluation of Commercial building automation in terms of Phase two.	(10 Marks)

OR

10	a.	Briefly explain commercial Building phase one.	(10 Marks)
	b.	Explain SOCRADES Integration Architecture.	(10 Marks)

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