CBCS SCHEME

USN	 3	16/17MCA552

Fifth Semester MCA Degree Examination, Jan./Feb. 2021 Internet of Things (IoT)

Time 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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	Module-1				
1	a. Explain the three reasons how M2M and IoT has up taken.	(03 Marks)			
1	b. List and explain key application areas of M2M devices.	(07 Marks)			
	c. Differentiate M2M with IoT.	(06 Marks)			
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	OR 4				
2	a. With neat diagram, discuss IoT and emerging its applications.	(08 Marks)			
	b. Explain the trends in information and communication technologies.	(08 Marks)			
	Module-2				
3	a. Differentiate between ECO systems and Value-chains.	(04 Marks)			
	b. Describe the steps involved in IoT value chain with neat diagram.	(08 Marks)			
	c. What is global value chain? With a diagram.	(04 Marks)			
	OR				
4	a. Explain IoT architecture outline with a diagram.	(08 Marks)			
4	b. With a neat diagram, explain information driven global value chain.	(08 Marks)			
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	Module-3				
5	a. Define Device. List and explain the properties of device.	(04 Marks)			
	b. How data is managed in M2M? With neat diagram.	(08 Marks)			
	c. List and explain cloud computing deployment model.	(04 Marks)			
	OR				
6	a. Explain CRISP_DM process diagram.	(06 Marks)			
	b. Explain Everythings as a Service (XaaS).	(05 Marks)			
	c. Explain the following:				
	(i) Business understanding				
	(ii) Data understanding				
	(iii) Data preparation				
	(iv) Modelling	(05 Morks)			
	(v) Evaluation	(05 Marks)			
	Module-4				
7	a. Briefly explain the ETSI M2M high-level architecture.	(08 Marks)			
,	b. With a neat diagram, explain the IoT Reference model.	(08 Marks)			
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OR					
8	a. Discuss IoT service functional group and Virtual Entity functional group.	(04 Marks)			
	b. Describe the information handling procedure using patterns.	(08 Marks)			

c. Write a note on:
(i) IoT Service Resolution (ii) Virtual Entity Service Resolution. (04 Marks)

Module-5

9 a. Explain how remote interaction and control over IoT applications. (04 Marks)
b. Explain service-oriented architecture-based device integration. (08 Marks)
c. What are the purpose of Building Automation System (BAS) (04 Marks)

OR

a. Give an example of case study: Phase one – Commercial building automation.
b. With a neat diagram, describe the SOCRDES integration architecture.
(08 Marks)
(08 Marks)

