

16/17MCA552

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

Time: 3 hrs.

Max. Marks: 80

ce.		į A	Note: Answer any FIVE full questions, choosing ONE full question from each	module.
On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.			Module-1	
ıalpı	1	a.	Explain the three reasons how M2M and IoT has up taken.	(03 Marks)
as m		b.	List and explain key application areas of M2M devices.	(07 Marks)
ted		c.	Differentiate M2M with IoT.	(06 Marks)
trea				(oo marks)
ges.			OR	
k pa will	2	a.	With neat diagram, discuss IoT and emerging its applications.	(08 Marks)
olan 50,		b.	Explain the trends in information and communication technologies.	(08 Marks)
ng l = 8=				
aini 42+	7.0077		Module-2	
eg,	3	a.	Differentiate between ECO systems and Value-chains.	(04 Marks)
the		b.	Describe the steps involved in IoT value chain with neat diagram.	(08 Marks)
on wri		C.	What is global value chain? With a diagram.	(04 Marks)
ines				
oss l uati	4		OR	
l cre r eq	4	a.	Explain IoT architecture outline with a diagram.	(08 Marks)
ona d/o		b.	With a neat diagram, explain information driven global value chain.	(08 Marks)
diag r an			Module-3	
aw	5	a.	Define Device. List and explain the properties of device.	(04 Mayles)
y dr		b.	How data is managed in M2M? With neat diagram.	(04 Marks)
soril to 6		c.	List and explain cloud computing deployment model.	(08 Marks) (04 Marks)
puls			g sprojmon model.	(04 Marks)
com,			OR	
rs, c	6	a.	Explain CRISP_DM process diagram.	(06 Marks)
fica		b.	Explain Everythings as a Service (XaaS).	(05 Marks)
ır ar lenti		c.	1	
you of id			(i) Business understanding	
ting ng ((ii) Data understanding	
reali			(iii) Data preparation	
con rev			(iv) Modelling	
On Any			(v) Evaluation	(05 Marks)
1. 2.				
ote	7	1	Module-4 Priofly avalain the ETSL MOM high level and its	
Z	1	a. b.	Briefly explain the ETSI M2M high-level architecture.	(08 Marks)
ortar		υ,	With a neat diagram, explain the IoT Reference model.	(08 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			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)
			Provide doing patterns.	(commans)

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Write a note on: (i) IoT Service Resolution (ii) Virtual Entity Service Resolution. (04 Marks) Module-5 Explain how remote interaction and control over IoT applications. (04 Marks) 9 b. Explain service-oriented architecture-based device integration. (08 Marks) What are the purpose of Building Automation System (BAS) (04 Marks) OR Give an example of case study: Phase one – Commercial building automation. 10 (08 Marks) With a neat diagram, describe the SOCRDES integration architecture. (08 Marks)