

17CS81

Eighth Semester B.E. Degree Examination, July/August 2021 Internet of Things and Applications

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

ed as malpr	1	a. b. c.	What does IOT and digitization mean? Elaborate. Explain with neat diagram, the one M2M IOT standardized architecture. What are the different challenges in IOT?	(08 Marks) (06 Marks) (06 Marks)
g blank pages. = 50, will be treated as malpr	2	a. b. c.	Discuss IOT World Forum (IOTWF) standardized architecture. Explain IOT Data Management and compute stack. Define IOT. Explain the evolutionary phases of Internet.	(08 Marks) (06 Marks) (06 Marks)
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	3	a.	List and explain the charactristics and attributes concerned when selecting and connecting smart object.	
the reitten e		b.	What is Zigbee? Explain 802.15.4 physical layer, MAC layer and security.	(10 Marks)
ines or	4	a.	Explain in detail wireless sensors network, communication protocol and its limita	
al cross l or equation		b. c.	List and explain different types of sensors. Write a note on LoRaWARN security.	(08 Marks) (06 Marks) (06 Marks)
On completing your answers, compulsorily draw diagonal cross lines on the remaining Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8	5	a. b.	Discuss various IOT application transport methods. Explain 6Ti SCH in detail.	(10 Marks) (10 Marks)
nly dra evalu	6	a.	Discuss the need for optimization.	
ulsor al to		b.	Explain CoAP IOT application layer protocol.	(08 Marks)
appe		C.	What are the key advantages of Internet protocol?	(06 Marks) (06 Marks)
s, cc on, a				(oo marks)
wer	7	a.	Explain the challenges in IOT security.	(10 Marks)
our ans dentif		b.	Explain different components of flexible Net Flow Architecture (FNF).	(10 Marks)
g yo	8	a.	Discuss Hadoop Eco-System-Lamda architecture.	(08 Marks)
ling		b.	Discuss OCTAVE and FAIR formal Risk Analysis.	(06 Marks)
ompi		C.	Compare Big Data and Edge Analytics.	(06 Marks)
	9	a.	Explain the following with respect to Arduino programming: (i) Structure (ii) Function.	
200		1	(iii) Variables and Data types. (iv) Digital I/O.	(10 Marks)
Important ivote : 1.		b.	Explain different layers of Smart City IOT architecture.	(10 Marks)
inpor	10	a.	Explain Smart City security architecture.	(08 Marks)
7		b.	Explain Smart City Traffic control architecture.	(06 Marks)
		C.	Write short note on Rasbery P _i operating system.	(06 Marks)