

VII Semester B.Tech. (CSE/ISE) Degree Examination, January 2022 (CBCS Scheme) 18CIPC701: INTERNET OF THINGS

Time :	3 Hours	Max. Marks: 100
	3) Answer a	MCQ is compulsory . and Q. No. 7 are compulsory . any three Q. No. 2 or Q. No. 3 , Q. No. 5 or , Q. No. 8 or Q. No. 9 .
1. Ar	nswer the multiple choice :	(1×15=15)
1.	What is the role of Bigdata	a in smart grid architecture of IOT?
	a) Collect data	b) Security
	c) Store data	d) Manage data
2.	empowers IC	OT by bringing together everyday object.
	a) Intelligent	b) Connectivity
	c) Dynamic nature	d) Enormous scale
3.	Which instruction set arch	itecture is used in Raspberry Pi ?
	a) X86	b) MSP
	c) AVR	d) ARM
4.	Which challenge comes wh	nen we use many devices on the same network?
	a) Signalling	b) Security
	c) Presence detection	d) Power consumption
5.	Diagnostics service for ca	urs
	a) MIPS	b) Auto Bot
	c) IOT Assistant	d) IOT
6.	Which possibility automat	ically communicator with other vechicles?
	a) Transportation	b) Energy and utilities
	c) Automative	d) Connected supply chain
7.	Which protocol is used to	link all the devices in the IOT?
	a) HTTP	b) UDP
	c) Network	d) TCP/IP



8.	Which programming language is used by Aurdino IDE IOT software for writing codes?				
	a) Python	b) Java			
	c) C/C++	d) Javascript			
9.	In Raspberry Pi IOT programming, which function is used to send a tweet?				
	a) tweet()	b) update - status()			
	c) status()	d) update()			
10.	IOT security management includes				
	a) Data storage				
	b) Protocol abstraction				
	c) Simple and fast installation				
	d) Security with hardware				
11.	allows us to control electronic components.				
	a) REST ful API	b) COAP API			
	c) HTTP	d) MQTT			
12.	The availability of is the cloud services provider who will host video and data or endusers.				
	a) Devices	b) Memory			
	c) Security System	d) Objects			
13.	will enable the humans to access, control and manage the				
	operation.				
	a) IOT	b) Bigdata			
	c) Network	d) Communication			
14.	performs two functions toward the delivery of the services.				
	4) 5.000.00.00.00.00	b) Local scheduler			
		d) IOT scheduler			
15.	service discovers the virtual sensors ability.				
	a) Register	b) Resource discovery			
	c) Unregister	d) Suspend			
	Discuss the various functional		9		
b)	Describe an example of IOT se communications.	ervice that uses websocket - based	8		

OR



3.	a)	Determine the IOT-levels for designing structural health monitoring system.	10
	b)	Describe IOT enabling technologies.	7
4.	a)	What are differences between SDN and NFV?	7
	b)	Describe how NFV can be used for virtualizing IOT devices.	5
	c)	Describe the roles of YANG and Trans API modules in device management.	5
5.	a)	Explain steps involved in IOT system design methodology.	9
	b)	What is the difference between a python module and a package? OR	8
6.	a)	Describe a use case of python dictionary.	9
	b)	Describe entities, objects and concepts in the domain of IOT system to be designed.	8
7.	a)	How is Raspberry Pi different from a desktop computer?	10
	b)	What is the use of SPI and I2C interfaces on Raspberry Pi?	7
8.	a)	What is the difference between a xively data stream and a channel?	9
	b)	Describe the use of Amazon Kinesis for IOT.	8
		OR	
9.	a)	Describe the architecture of a Django application.	7
	b)	What does a MapReduce Job comprise of ?	5
	c)	What are the uses of messaging queues? Discuss the message format supported by amazon SQS.	5