

DCK-003-2046003

Seat No. _____

B. Sc. I. T. (Sem. VI) (CBCS) (W.E.F. 2019) Examination

July - 2022

CS-33: Internet of Things - IOT BSCIT 2019

Faculty Code: 003 Subject Code: 2046003

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 1 (a) Objective type questions: 4 (1) Full form of IETF. Define: Information. (3) Full form of ITU. (4) Define: IOT Business process. 2 Answer in brief: (any 1 out of 2) Explain devices in IOT. (1) (2)Explain benefits of IOT. Answer in detail: (any 1 out of 2) 3 (c) Write a note on IOT architecture outline. Explain M2M data management in detail. Write a note on: (any 1 out of 2) 5 Write a short note on XaaS. (2)Explain architecture building process in IoT. 2 (a) Objective type questions: 4 Full form of ARM. (1) (2)Full form of CRUD. What is reference architecture? (3)Define: Actuators. (4)

	(b)	Answer in brief: (any 1 out of 2)		
		(1)	Explain Data representation and visualization.	
		(2)	Explain Interaction and remote control.	
	(c)	Ans	wer in detail: (any 1 out of 2)	3
		(1)	Explain functional model.	
		(2)	Explain Communication model.	
	(d)	Wri	te a note on: (any 1 out of 2)	5
		(1)	Explain Functional view and Information view in detail.	
		(2)	Write a short note on ETSI reference architecture in detail.	
3	(a)	Obje	ective type questions :	4
		(1)	Full form of ICMP.	
		(2)	Give the normal frame size of IEEE 802.11 protocol.	
		(3)	Full form of RFID.	
		(4)	Full form of ND and DHCP.	
	(b)	Ans	wer in brief: (any 1 out of 2)	2
		(1)	Explain Z wave.	
		(2)	Explain Zigbee smart energy.	
	(c)	Ans	wer in detail: (any 1 out of 2)	3
		(1)	Explain RPL, CORPL and CARP in detail.	
		(2)	Write a note on Wireless HART and DASH 7.	
	(d)	Wri	te a note on: (any 1 out of 2)	5
		(1)	Explain 6LoWPAN and 6TiSCH in detail.	
		(2)	Explain following in detail.	
			(i) IEEE 802.15	
			(ii) IEEE 802.11.	

4	(a)	Objective type questions:		
		(1) Define Session layer.		
		(2) Full form of AMQP.		
		(3) Full form of CoAP.		
		(4) Full form of DCCP.		
	(b)	Answer in brief: (any 1 out of 2)	2	
		(1) Write a note on UDP.		
		(2) Write a note on SCTP.		
	(c)	Answer in detail: (any 1 out of 2)		
		(1) Explain TLS and DTLS.		
		(2) Write a note on XMPP.		
	(d)	Write a note on: (any 1 out of 2)	5	
		(1) Explain TCP and MPTCP.		
		(2) Write a note on MQTTand SMQTT.		
5	(a)	Objective type questions:	4	
		(1) Full form of ETSI.		
		(2) OMA stands for		
		(3) MAC stands for		
		(4) In 6LoWPAN meaning of 6 is		
	(b)	Answer in brief: (any 1 out of 2)	2	
		(1) Explain One M2M Protocol.		
		(2) Explain BBF.		
	(c)	Answer in detail: (any 1 out of 2)		
		(1) Explain Application layer.		
		(2) Write a note on RPL.		
	(d)	Write a note on: (any 1 out of 2)		
		(1) Explain IEEE 802.15.4 MAC.		
		(2) Write a note on FTSI M2M protocol		