

PB-003-1046003 Seat No. _____

B. Sc. (IT) (Sem. VI) (W.E.F. 2016) (CBCS) Examination

March / April - 2020

CS - 33: Internet of Things (IOT)

Faculty Code: 003

Subject Code: 1046003

Tin	ne : 2	$2\frac{1}{2}$ H	ours]	[Total Marks: 70		
1	(a)	Objective type questions:		4		
		(1)	Full form of ITU and IETF.			
		(2)	What is Gateways?			
		(3)	What is IOT ?			
		(4)	List main design principles for IOT	' architecture.		
	(b)	Ans	2			
		(1)	Explain architecture building proces	ss in IoT.		
		(2)	Explain data management.			
	(c)	Answer in detail : (any 1 out of 2)				
		(1)	Explain IOT architecture outline in	detail.		
		(2)	Explain business processes in IOT.			
	(d)	Wri	Write a note on: (any 1 out of 2)			
		(1)	Write a short note on XaaS.			
		(2)	Explain need of networking in IOT we network and wide area network.	vith local area		
2	(a)	(a) Objective type questions :		4		
		(1)	Full form of MSBF.			
		(2)	Define: Views.			
		(3)	Give any two examples of Core net	work.		
		(4)	Give the full form and use of OGC	•		
	(b)	Ans	2			
		(1)	Explain Interaction and remote con	trol.		
		(2)	Explain Data representation and vi	sualization.		
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	(c)	Ans	swer in detail : (any 1 out of 2)	3
		(1)	What is IOT architecturereference model? Explain	
			communication model in detail.	
		(2)	Write a short note on IOT reference architecture.	
	(d)	Wri	te a note on : (any 1 out of 2)	5
		(1)	Explain 'ETSI TC M2M architecture in detail.	
		(2)	Explain following in detail.	
			(1) Functional View	
			(2) Information view.	
3	(a)	Obj	ective type questions :	4
		(1)	Full form of DHCP.	
		(2)	Define Ipv6.	
		(3)	Give the size of frame in IEEE 802.11 AH protocol.	
		(4)	RFID stands for	
	(b)	Ans	swers in brief: (any 1 out of 2)	2
		(1)	Explain 6TiSCH.	
		(2)	Explain Z wave.	
	(c)	Ans	swer in detail : (any 1 out of 2)	3
		(1)	Write a note on Bluetooth low energy.	
		(2)	Write a note on Zigbee smart energy and DASH 7.	
	(d)	Wri	te a note on: (any 1 out of 2)	5
		(1)	What is IEEE ? Write a note on IEEE 802.15.	
		(2)	Explain RPL, CORPLand CARP in detail.	
4	(a)	Obj	ective type questions :	4
		(1)	Full form of DCCP.	
		(2)	Full form of SCTP.	
		(3)	Full form of MQTT.	
		(4)	Full form of UDP.	
	(b)	Ans	swers in brief: (any 1 out of 2)	2
		(1)	Write a note on TCP.	
		(2)	Write a note on HTTP.	
	(c)	Ans	swer in detail : (any 1 out of 2)	3
		(1)	Write a note on MPTCP.	
		(2)	Define: Session layer and explain AMQP.	
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	(d)	Write a note on: (any 1 out of 2)	
		(1) Write a note on CoAP and XMPP in detail.	
		(2) Define: Transport layer and explain TLS and DTLS.	
5	(a)	Objective type questions:	4
		(1) Full form of ETSI.	
		(2) What is RPL?	
		(3) OMA stands for	
		(4) MAC stands for	
	(b)	Answers in brief: (any 1 out of 2)	2
		(1) Explain Application layer.	
		(2) Define BFF.	
	(c)	Answer in detail: (any 1 out of 2)	3
		(1) Explain features of ETSI M2M.	
		(2) Explain IEEE 802.15.4 MAC.	
	(d)	Write a note on: (any 1 out of 2)	5
		(1) Write a note on service layer oneM2M.	
		(2) Write a note on 6LoWPAN.	