HB-003-1046003

B. Sc. (I.T.) (Sem. VI) Examination

April - 2023

Internet of Things : CS-33

(Old Course)

Faculty Code : 003
Subject Code : 1046003

Time : $2\frac{1}{2}$ / Total Marks : **70**

1	(a)	Answer the following :	**4**
		(1) What is IOT ?	
		(2) Full form : ITU	
		(3) Full form : IETF	
		(4) Explain Gateway	
	(b)	Answer in brief :	**2**
		(1) Explain Data Management.	
		(2) What is WAN ?	
	(c)	Answer in brief :	**3**
		(1) Differentiate : M2M and IOT.	
		(2) Explain Business Process in IOT.	
	(d)	Answer in brief :	**5**
		(1) Write short note on XaaS.	
		(2) Explain Data Management.	
2	(a)	Answer the following :	**4**
		(1) Full form : ITU	
		(2) Full form : MSBF	
		(3) What is RFID ?	
		(4) What is Sensor ?	
	(b)	Answer in brief :	**2**
		(1) Explain Remote Control.	
		(2) Describe Technical Design Constraints in IOT.	
	(c)	Answer in brief :	**3**
		(1) Describe Responsibilities of ETSI M2M.	
		(2) Explain Data Representation and Visualization.	

(d) Answer in brief : 5
    (1) Explain : Functional View, Information View.
    (2) Explain IOT Reference Model in Detail.

3 (a) Answer the following : 4
    (1) Full form : 6TiSCH
    (2) Full form : ICMP.
    (3) Full form : IEEE.
    (4) Full form : MAC.

(b) Answer in brief : 2
    (1) Describe 6TiSCH
    (2) Explain Z Wave.

(c) Answer in brief : 3
    (1) Write note on Bluetooth Low Energy.
    (2) Explain IEEE 802.15

(d) Answer in brief : 5
    (1) Explain RPL, CORPL and CARP in detail.
    (2) Explain ND and DHCP.

4 (a) Answer the following : 4
    (1) Full form : DCCP.
    (2) Full Form UDP.
    (3) Full form : MQTT.
    (4) Full form : SCTP.

(b) Answer in brief : 2
    (1) Describe TCP.
    (2) Describe XMPP.

(c) Answer in brief : 3
    (1) Write note on MPTCP.
    (2) Differentiate : TCP and UDP.

(d) Answer in brief : 5
    (1) Explain TLS and DTLS in detail.
    (2) Write note on CoAP and XMPP in detail.

5 (a) Answer the following : 4
    (1) Full form : ETSI.
    (2) What is RPL ?
    (3) Full form : MAC
    (4) Full form : OMA

(b) Answer in brief :   **2**
    (1) Explain Application Layer.
    (2) Explain RPL.

(c) Answer in brief :   **3**
    (1) Explain BBF.
    (2) Explain one M2M.

(d) Answer in brief :   **5**
    (1) Write a note on service layer one M2M.
    (2) Write note on 6LoWPAN.

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