



Seat No. _____

HB-003-2046003

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

April - 2023

Internet of Things : CS-33

(New course)

Faculty Code : 003

Subject Code : 2046003

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

- 1 (a) Answer the following : 4
- (1) What is IOT ?
 - (2) Full form : M2M.
 - (3) Full form : IETF
 - (4) Full form : XaaS
- (b) Answer in brief : 2
- (1) Explain Gateways.
 - (2) What is Knowledge Management ?
- (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) Define : Functional View.
 - (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 : CORPL.
 (3) Full form : IEEE.
 (4) Full Form : CARP
- (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 : AMQP.
 (2) Full Form : UDP.
 (3) Full Form : XMPP.
 (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.
-