



DO-003-2046003

Seat No. _____

B. Sc. (IT) (Sem. VI) (CBCS) Examination

March – 2022

CS - 33 : Internet of Things

(New Course)

Faculty Code : 003

Subject Code : 2046003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : Answer the following questions.

- 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 oneM2M.
 - (2) Write note on 6LoWPAN.