DO-003-1046003   Seat No. _____

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

March / April - 2022

Internet of Things : CS-33

(Old Course 2016)

Faculty Code : 003

Subject Code : 1046003

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

Instruction : Answer the following question.

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, CORPLand 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)   Ansvvrer 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.

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