

B.Sc.(IT) Semester - 6 (CBCS) Examination
March/April-2023 (OLD COURSE)
CS-33 INTERNET OF THINGS (IOT)(CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) Attempt following questions. (04)
1. M2M stands for _____.
 2. IOT stands for _____.
 3. How Many Layer of Outline architecture in IOT?
 4. CoAP stands for _____.
- Q.1(B) Attempt following. (Attempt Any One) (02)
1. What is gateway?
 2. List out types of IOT devices.
- Q.1(C) Attempt following. (Attempt Any One) (03)
1. Write note on knowledge Management.
 2. Differentiate sensor V/S actuator.
- Q.1(D) Attempt following. (Attempt Any One) (05)
1. Discuss in brief different applications of IoT.
 2. Explain M2M components.
- Q.2(A) Attempt following questions. (04)
1. 3GPP stands for _____.
 2. What is informational view?
 3. ETSI stands for _____.
 4. RFID stands for _____.
- Q.2(B) Attempt following. (Attempt Any One) (02)
1. Explain Use of Reference Model.
 2. Define term "Safety, Privacy".
- Q.2(C) Attempt following. (Attempt Any One) (03)
1. Explain Interaction and Remote Control.
 2. Write short note on: function view.
- Q.2(D) Attempt following. (Attempt Any One) (05)
1. Explain network domain contains elements.
 2. Write note on: ETSI high level architecture.
- Q.3(A) Attempt following questions. (04)
1. IEEE stands for _____.
 2. CARP stands for _____.
 3. ICMP stands for _____.
 4. DHCP stands for _____.
- Q.3(B) Attempt following. (Attempt Any One) (02)
1. Differentiate RPL V/S CORPL.
 2. List out Routing Protocols.
- Q.3(C) Attempt following. (Attempt Any One) (03)
1. Write note on Zigbee Smart Energy.
 2. Write note on IEEE 802.11.

- Q.3(D) Attempt following. (Attempt Any One) (05)
1. Explain Bluetooth Low Energy in detail.
 2. Explain 6LoWPAN as Network Layer Protocol in detail.
- Q.4(A) Attempt following questions. (04)
1. DCCP stands for _____.
 2. SCTP stands for _____.
 3. DTLS stands for _____.
 4. AMQP stands for _____.
- Q.4(B) Attempt following. (Attempt Any One) (02)
1. Describe UDP.
 2. Explain use of Transport Layer.
- Q.4(C) Attempt following. (Attempt Any One) (03)
1. Write note on: MPTCP.
 2. Differentiate TLS V/S DTLS.
- Q.4(D) Attempt following. (Attempt Any One) (05)
1. Explain Transport Layer in detail.
 2. Write note on MQTT.
- Q.5(A) Attempt following questions. (04)
1. SSL stands for _____.
 2. OMADM stands for _____.
 3. OMA stands for _____.
 4. RPL stands for _____.
- Q.5(B) Attempt following. (Attempt Any One) (02)
1. Explain RPL.
 2. Explain MAC.
- Q.5(C) Attempt following. (Attempt Any One) (03)
1. Explain OMA in IoT.
 2. Explain BBF security in IoT Protocols.
- Q.5(D) Attempt following. (Attempt Any One) (05)
1. Explain Application Layer in detail.
 2. Explain Service Layer oneM2M in detail.
