

B.Sc.(IT) Semester - 6 (CBCS) Examination
March/April-2024 (NEW COURSE)
Internet of Things (IOT) (Core (New))

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

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

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- Que-1(A) Attempt following questions. (03)
1. M2M stands for _____.
 2. XaaS stands for _____.
 3. CoAP stands for _____.
- Que-1(B) Attempt following. (Attempt Any Two) (06)
1. What is gateway?
 2. Explain wide area networking.
 3. Explain business processes in IOT
 4. Explain M2M and IoT Analytics.
- Que-1(C) Attempt following. (Attempt Any One) (05)
1. Discuss in brief different applications of IoT.
 2. Explain key characteristics of M2M data in detail.
- Que-2(A) Attempt following questions. (03)
1. What is information model?
 2. ETSI stands for _____.
 3. RFID stands for _____.
- Que-2(B) Attempt following. (Attempt Any Two) (06)
1. What is device functional group?
 2. Define term "Privacy, Trust, Security Model".
 3. What is actuators?
 4. Explain Interaction and Remote Control.
- Que-2(C) Attempt following. (Attempt Any One) (05)
1. Discuss ETSI M2M high level Architecture in detail.
 2. Explain IoT domain model in detail.
- Que-3(A) Attempt following questions. (03)
1. MAC stands for _____.
 2. ICMP stands for _____.
 3. DHCP stands for _____.
- Que-3(B) Attempt following. (Attempt Any Two) (06)
1. Write note on WirelessHART Protocol.
 2. Write note on Z-Wave.
 3. Write note on CARP.
 4. Write a note on DASH7.
- Que-3(C) Attempt following. (Attempt Any One) (05)
1. Explain Zigbee Smart Energy in detail.
 2. Explain Bluetooth Low Energy in detail.
- Que-4(A) Attempt following questions. (03)
1. DCCP stands for _____.
 2. UDP stands for _____.
 3. MQTT stands for _____.

- Que-4(B) Attempt following. (Attempt Any Two) (06)
1. Differentiate between TCP V/S UDP.
 2. Explain MPTCP.
 3. Explain AMQP.
 4. Differentiate between TLS V/S DTLS.
- Que-4(C) Attempt following. (Attempt Any One) (05)
1. Write a note on MQTT.
 2. Explain Transport Layer in detail.
- Que-5(A) Attempt following questions. (03)
1. BBF stands for _____.
 2. OMA stands for _____.
 3. SSL stands for _____.
- Que-5(B) Attempt following. (Attempt Any Two) (06)
1. Explain BBF security in IoT Protocols.
 2. Explain service layer – OneM2M.
 3. Explain 6LoWPAN in context to security.
 4. Write note on RPL.
- Que-5(C) Attempt following. (Attempt Any One) (05)
1. Explain ETSI M2M in detail.
 2. Explain Application Layer in detail.
