

B.Sc.(IT) Semester - 6 (CBCS) Examination
March/April-2023 (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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- Q.1(A) Attempt following questions. (03)
1. How many layers of Outline Architecture in IoT?
 2. M2M stands for _____.
 3. XaaS stands for _____.
- Q.1(B) Attempt following. (Attempt Any Two) (06)
1. Explain Local Area Networking.
 2. Explain M2M components.
 3. Differentiate Sensor V/S Actuator.
 4. What is Knowledge Management?
- Q.1(C) Attempt following. (Attempt Any One) (05)
1. Describe XaaS in detail.
 2. Explain Outline Architecture Layer.
- Q.2(A) Attempt following questions. (03)
1. List out Domain Model Type.
 2. ETSI stands for _____.
 3. RFID stands for _____.
- Q.2(B) Attempt following. (Attempt Any Two) (06)
1. Define term "Safety, Privacy, Trust, Security Model".
 2. Explain Function View.
 3. Explain Interaction and Remote Control.
 4. Explain M2M area network.
- Q.2(C) Attempt following. (Attempt Any One) (05)
1. Write note on: IoT domain model.
 2. Write note on ETSI high level architecture.
- Q.3(A) Attempt following questions. (03)
1. IEEE stands for _____.
 2. CARP stands for _____.
 3. ICMP stands for _____.
- Q.3(B) Attempt following. (Attempt Any Two) (06)
1. What is Bluetooth Low Energy?
 2. Explain RPL.
 3. Write note on IEEE 802.15.
 4. Write note on Z-Wave.
- Q.3(C) Attempt following. (Attempt Any One) (05)
1. Explain 6LoWPAN as Network Layer protocol.
 2. Explain Wireless HART protocol in detail.
- Q.4(A) Attempt following questions. (03)
1. SCTP stands for _____.
 2. DTLS stands for _____.
 3. AMQP stands for _____.

- Q.4(B) Attempt following. (Attempt Any Two) (06)
1. Explain TLS.
 2. Explain DCCP.
 3. Differentiate TCP V/S UDP.
 4. Explain XMPP.
- Q.4(C) Attempt following. (Attempt Any One) (05)
1. Explain Session Layer – HTTP in detail.
 2. Write a note on MQTT.
- Q.5(A) Attempt following questions. (03)
1. SSL stands for _____.
 2. OMADM stands for _____.
 3. RPL stands for _____.
- Q.5(B) Attempt following. (Attempt Any Two) (06)
1. How RPL is Secure?
 2. Explain BBF security in IoT Protocols.
 3. Write note on oneM2M.
 4. Explain 6LoWPAN in context to security.
- Q.5(C) Attempt following. (Attempt Any One) (05)
1. Explain ETSI M2M in detail.
 2. Discuss Security in MAC 802.15.4 Protocol.
