

B.Sc.(IT) Semester - 6 (CBCS) Examination
April/May-2022 (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. Differentiate M2M V/S IoT.
 2. Explain Data Management.
 3. Explain M2M and IoT Analytics.
 4. What is Knowledge Management?
- Que-1(C) Attempt following. (Attempt Any One) (05)
1. Explain outline architecture layer.
 2. Discuss in brief different applications of IoT.
- Que-2(A) Attempt following questions. (03)
1. 3GPP stands for _____.
 2. ETSI stands for _____.
 3. RFID stands for _____.
- Que-2(B) Attempt following. (Attempt Any Two) (06)
1. Explain use of Reference Model.
 2. Explain M2M area network.
 3. Explain function view.
 4. Explain Interaction and Remote Control.
- Que-2(C) Attempt following. (Attempt Any One) (05)
1. Explain IoT domain model in detail.
 2. Explain network domain contains elements.
- Que-3(A) Attempt following questions. (03)
1. MTC stands for _____.
 2. ICMP stands for _____.
 3. DHCP stands for _____.

- Que-3(B) Attempt following. (Attempt Any Two) (06)
1. Differentiate RPL V/S CORPL.
 2. Write note on IEEE 802.15.
 3. Write note on Wireless HART Protocol.
 4. Write note on Z-Wave.
- Que-3(C) Attempt following. (Attempt Any One) (05)
1. Explain Network Layer IPV-4 in detail.
 2. Explain Zigbee Smart Energy in detail.
- Que-4(A) Attempt following questions. (03)
1. DCCP stands for _____.
 2. TLS stands for _____.
 3. MQTT stands for _____.
- Que-4(B) Attempt following. (Attempt Any Two) (06)
1. Explain MPTCP.
 2. Explain XMPP.
 3. Differentiate TLS V/S DTLS.
 4. Explain CoAP.
- Que-4(C) Attempt following. (Attempt Any One) (05)
1. Explain Session Layer – HTTP in detail.
 2. Explain Transport Layer in detail.
- Que-5(A) Attempt following questions. (03)
1. OMA stands for _____.
 2. MAC stands for _____.
 3. SSL stands for _____.
- Que-5(B) Attempt following. (Attempt Any Two) (06)
1. Explain MAC.
 2. Explain BBF security in IoT Protocols.
 3. Write note on OMA.
 4. Explain 6LoWPAN in context to security.
- Que-5(C) Attempt following. (Attempt Any One) (05)
1. Discuss Security in MAC 802.15.4 Protocol.
 2. Explain Application Layer in detail.
