

B.Sc.(IT) Semester - 6 (CBCS) Examination
July-2025 (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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- Que-1(A) Attempt following questions. (04)
1. CoAP stands for _____.
 2. What is IOT?
 3. What is Knowledge Management?
 4. XaaS stands for _____.
- Que-1(B) Attempt following. (Attempt Any One) (02)
1. Explain Wide Area Networking.
 2. What is Gateway?
- Que-1(C) Attempt following. (Attempt Any One) (03)
1. Difference between M2M and IOT.
 2. Explain Data Management.
- Que-1(D) Attempt following. (Attempt Any One) (05)
1. Explain M2M components in detail.
 2. Explain outline architecture layer.
- Que-2(A) Attempt following questions. (04)
1. What is informational view?
 2. What is functional view?
 3. List out Domain Model types.
 4. 3GPP stands for _____.
- Que-2(B) Attempt following. (Attempt Any One) (02)
1. Explain M2M area network.
 2. Define term "Safety, Privacy and Trust".
- Que-2(C) Attempt following. (Attempt Any One) (03)
1. Explain deployment and operational view.
 2. Explain IoT reference Model in brief.
- Que-2(D) Attempt following. (Attempt Any One) (05)
1. Explain ETSI M2M High Level Architecture.
 2. Explain network domain contains elements.
- Que-3(A) Attempt following questions. (04)
1. CARP stands for _____.
 2. IEEE stands for _____.
 3. ICMP stands for _____.
 4. DHCP stands for _____.

- Que-3(B) Attempt following. (Attempt Any One) (02)
1. Differences between RPL V/S CORPL
 2. What is DASH7?
- Que-3(C) Attempt following. (Attempt Any One) (03)
1. What is Bluetooth Low Energy?
 2. Write note on Z-Wave.
- Que-3(D) Attempt following. (Attempt Any One) (05)
1. Explain WirelessHART Protocol in detail.
 2. Write note on 6LoWPAN as Network Layer Protocol.
- Que-4(A) Attempt following questions. (04)
1. TLS stands for _____.
 2. DTLS stands for _____.
 3. AMQP stands for _____.
 4. DCCP stands for _____.
- Que-4(B) Attempt following. (Attempt Any One) (02)
1. Describe XMPP.
 2. Describe SCTP.
- Que-4(C) Attempt following. (Attempt Any One) (03)
1. Explain MPTCP.
 2. Explain CoAP.
- Que-4(D) Attempt following. (Attempt Any One) (05)
1. Differentiate between TCP V/S UDP.
 2. Explain Transport Layer in detail.
- Que-5(A) Attempt following questions. (04)
1. SSL stands for _____.
 2. ETSI stands for _____.
 3. OMA stands for _____.
 4. RPL stands for _____.
- Que-5(B) Attempt following. (Attempt Any One) (02)
1. What is oneM2M?
 2. What is BBF?
- Que-5(C) Attempt following. (Attempt Any One) (03)
1. How RPL is Secure?
 2. Explain 6LoWPAN in context to security.
- Que-5(D) Attempt following. (Attempt Any One) (05)
1. Discuss Security in MAC 802.15.4 Protocol.
 2. Explain ETSI M2M in detail.
