

B.Sc.(IT) Semester - 6 (CBCS) Examination**Oct/Nov-2020****CS-33 INTERNET OF THINGS (IOT)(CORE)****Time: 2:00 Hours****Marks: 56****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any four of the following questions.
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- Q.1(A) Attempt following questions (04)
1. Give full form of XaaS?
 2. How many stages in IOT architecture?
 3. Give full form of M2M?
 4. Give the definition of IOT gateway.
- Q.1(B) Answer any one (02)
1. Explain difference between LAN & WAN networking.
 2. Discuss principals of IOT.
- Q.1(C) Answer any one (03)
1. What is IOT?
 2. Define business processes in IOT.
- Q.1(D) Answer any one (05)
1. Discuss IOT architecture in detail.
 2. Discuss in brief, How IOT is helpful in knowledge management.
- Q.2(A) Attempt following questions. (04)
1. What is state of the art?
 2. Definition of information model IOT.
 3. List out usage of IOT communication model.
 4. What are data representation and visualization constraints?
- Q.2(B) Answer any one (02)
1. Explain function model IOT.
 2. Explain technical design constraints in IOT.
- Q.2(C) Answer any one (03)
1. Explain domain model in IOT reference model.
 2. What is iteration diagram explain with example.
- Q.2(D) Answer any one. (05)
1. Explain functional view, information view, deployment and Operational View, of IOT. Reference architecture
 2. Explain IOT reference model with diagram.
- Q.3(A) Attempt following questions (04)
1. Give full form of MAC.
 2. Give full form of DHCP.
 3. What is zigbee smart energy?
 4. Give full form of CARP.

- Q.3(B) Answer any one (02)
1. What is low energy Bluetooth?
 2. Differentiate IPv4 vs. IPv6.
- Q.3(C) Answer any one (03)
1. Differentiate IEEE 802.11 vs. IEEE 802.15.
 2. Explain DHCP.
- Q.3(D) Answer any one. (05)
1. What is 6lowpan?
 2. Define LCMP & CARP protocol in detail.
- Q.4(A) Attempt following question (04)
1. Give full form of UDP.
 2. What is DTLS?
 3. Give full form of AMQP.
 4. Give full of SCTP.
- Q.4(B) Answer any one (02)
1. Differentiate TCP vs. UDP.
 2. Differentiate AMQP vs. MQTT.
- Q.4(C) Answer any one (03)
1. Explain MPTCP protocol.
 2. Explain XMPP protocol.
- Q.4(D) Answer any one (05)
1. What is session layer? Explain any two protocols.
 2. What is transport layer? Explain any two protocols.
- Q.5(A) Attempt following questions. (04)
1. Give the full form of RPL.
 2. Give the full form of ETSI.
 3. IEEE 802.15.4 standard is used for _____?
 4. Give the full form of OMA.
- Q.5(B) Answer any one (02)
1. What is oneM2M in IOT?
 2. What is OMA?
- Q.5(C) Answer any one (03)
1. Discuss security issue related to IOT
 2. Explain MAC 802.15.4
- Q.5(D) Answer any one. (05)
1. Explain application layer in detail.
 2. Explain service layer in detail.
