

**B.Sc.(IT) Semester - 6 (CBCS) Examination**  
**May/June-2021 (OLD COURSE)**  
**CS-33 INTERNET OF THINGS (IOT)(CORE)**

**Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1 [A] Attempt The Following (04)
1. What is full form of ARM?
  2. What is 3GPP?
  3. What is knowledge management?
  4. What is XaaS?
- Q.1 [B] Attempt The Following (Any One) (02)
1. What is Actuator?
  2. What is gateway?
- Q.1 [C] Attempt The Following (Any One) (03)
1. What is Asset Layer of functional layer of IoT solution?
  2. Explain XaaS.
- Q.1 [D] Attempt The Following (Any One) (05)
1. Explain problem and domain partitioning.
  2. Explain data management in detail.
- Q.2 [A] Attempt The Following (04)
1. Full form of ETSI.
  2. Write any one nonfunctional requirement of IoT Application
  3. Full form of ITU
  4. What is RFID?
- Q.2 [B] Attempt The Following (Any One) (02)
1. What is information view?
  2. Explain ETSI M2M interface.
- Q.2 [C] Attempt The Following (Any One) (03)
1. Explain RFID.
  2. Discuss Management Functional Group.
- Q.2 [D] Attempt The Following (Any One) (05)
1. Explain IoT reference model.
  2. Explain deployment and operation view in detail.
- Q.3 [A] Attempt The Following (04)
1. DHCP Stands for \_\_\_\_\_
  2. Explain IEEE 802.11.
  3. CARP stands for \_\_\_\_\_.
  4. What is 6LoWPAN?
- Q.3 [B] Attempt The Following (Any One) (02)
1. Explain WirelessHART.
  2. Explain 6TiSCH.
- Q.3 [C] Attempt The Following (Any One) (03)
1. What is Zigbee smart energy?
  2. Explain RPL.

- Q.3 [D] Attempt The Following (Any One) (05)
1. Explain IEEE 802.15.4 in detail.
  2. Explain CORPL.
- Q.4 [A] Attempt The Following (04)
1. DCCP stands for \_\_\_\_\_
  2. HTTP stands for \_\_\_\_\_
  3. TLS stands for \_\_\_\_\_
  4. CoAP stands for \_\_\_\_\_
- Q.4 [B] Attempt The Following (Any One) (02)
1. What is AMQP?
  2. What is DTLS?
- Q.4 [C] Attempt The Following (Any One) (03)
1. Explain UDP.
  2. Explain CARP.
- Q.4 [D] Attempt The Following (Any One) (05)
1. Explain and differentiate TCP and MPTCP.
  2. Explain MQTT in detail.
- Q.5 [A] Attempt The Following (04)
1. SSL Stands for \_\_\_\_\_
  2. RPL Stands for \_\_\_\_\_
  3. B6T Stands for \_\_\_\_\_
  4. ETSI stands for \_\_\_\_\_
- Q.5 [B] Attempt The Following (Any One) (02)
1. Explain security in MAC 802.15.4.
  2. Explain security in 6LoWPAN.
- Q.5 [C] Attempt The Following (Any One) (03)
1. What is OMA? Explain it.
  2. Explain security in application layer.
- Q.5 [D] Attempt The Following (Any One) (05)
1. Explain security in IoT Protocols in detail.
  2. Explain service layer OneM2M in detail.

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