



C20-CM-CAI-AIM-CCB-CCN-WD-CAI-504

7638

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER / NOVEMBER—2024

DCME – FIFTH SEMESTER EXAMINATION

INTERNET OF THINGS

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define IoT and list any three features.
2. List advantage and disadvantages of IoT.
3. List features of XMPP.
4. What are the features of AMQP?
5. List features of IEEE 802.15.4.
6. Write briefly about NFC.
7. Write about wireless sensor network.
8. List the applications of M2M.
9. Define cloud computing.
10. What is cloud simulator?

PART—B

8×5=40

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Explain functional components of IoT.

(OR)

(b) Explain various connectivity technologies in IoT.

12. (a) Explain MQTT in detail.

(OR)

(b) Explain CoAP and message types in detail.

13. (a) Explain different topologies of ZIGBEE.

(OR)

(b) Explain about PicoNet.

14. (a) Explain wireless multimedia sensor networks in detail.

(OR)

(b) Explain information theoretic self-management in WSN.

15. (a) Explain components of cloud computing.

(OR)

(b) Explain security concepts in cloud.

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 16.** How would you best describe IoT? Why it has gained so much popularity in the recent years?

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