Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL SCHOOL OF INFORMATION SCIENCES, MANIPAL
FIRST SEMESTER MASTER OF ENGINEERING - ME (EMBEDDED SYSTEMS / AUTOMOTIVE EMBEDDED SYSTEMS)
DEGREE EXAMINATION - FEBRUARY 2021

Internet of Things [IOT-607]

Marks: 100   **Duration: 180 mins.**

FRIDAY, FEBRUARY 12, 2021

Answer all the questions.

1)	Discuss different Levels in IoT. (TLO 1.1) (10 Marks)	(10)
2)	Explain WebSocket based communication models in IoT. (TLO 1.1) (10 Marks)	(10)
3)	Illustrate IoT Design Methodology with block diagram. (TLO 1.1) (10 Marks)	(10)
4)	What is Socket? Explain Server Socket Method and Client Socket Methods. (TLO 3.1) (10 Marks)	(10)
5)	A. What is 6LoWPAN? Write the features of 6LoWPAN technology. (TLO 2.3) (5 Marks) B. Compare IPv6 with IPv4 network protocol. (TLO 2.3) (5 Marks)	(10)
6)	Discuss the importance of Database system. Explain how to create a database and access, update and delete data from database. (TLO 3.2) (10 Marks)	(10)
7)	Illustrate different Addressing Types and Link Types in Bluetooth. (TLO 2.1) (10 Marks)	(10)
8)	Explain the iterative and control statements in Python with example. (TLO 1.2) (10 Marks)	(10)
9)	Briefly describe ZigBee protocol stack architecture with suitable diagram. (TLO 2.2) (10 Marks)	(10)
10)	Explain the design challenges in WSN. Discuss Sensor - MAC (S - MAC) protocol. (TLO 1.3) (10 Marks)	(10)

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