

CBCS SCHEME

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18SCS/SCN14

First Semester M.Tech. Degree Examination, Dec.2018/Jan.2019 Internet of Things

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the characteristics of an object. Discuss classification of objects with a diagram. (10 Marks)
- b. Explain IPV6 role in IOT. (10 Marks)

OR

- 2 a. Discuss basic elements of M2M application. (10 Marks)
- b. Discuss any four applications of automotives. (10 Marks)

Module-2

- 3 a. Discuss identification of IOT objects and services. (10 Marks)
- b. Explain structural aspects of IOT. (10 Marks)

OR

- 4 a. Explain IPV6 routing protocol for RPL ROLL. (10 Marks)
- b. List out main features of COAP. Explain the request/response model used by COAP. (10 Marks)

Module-3

- 5 List and explain IEEE 802.15.4 frame formats. (20 Marks)

OR

- 6 a. Draw IPV6 packet format and also explain fields in the IPV6 base header. (10 Marks)
- b. Describe QOS capabilities in IPV6. (10 Marks)

Module-4

- 7 a. Explain the smart lighting IOT systems. (10 Marks)
- b. Describe smart parking IOT systems. (10 Marks)

OR

- 8 a. Explain the forest fire detection system. (10 Marks)
- b. Explain the air pollution monitoring system. (10 Marks)

Module-5

- 9 a. How do you set up Hadoop cluster? (10 Marks)
- b. Write a note on Hadoop yarn. (10 Marks)

OR

- 10 a. Write a note on Apache spark. (10 Marks)
- b. Describe Apache storm for real time data analysis. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.