USN | | | | | | | | | | 16/17MCA552

Fifth Semester MCA Degree Examination, Dec.2019/Jan.2020
Internet of Things

Time: 3 hrs.   Max. Marks: 80

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

Module-1

1 | a. | Explain with a neat diagram a typical M₂M solution overview. | (08 Marks)
| b. | Explain key M₂M application areas. | (08 Marks)

OR

2 | a. | Define IoT? Explain emerging IoT applications. | (08 Marks)
| b. | In brief explain Game changers along with their relationship to IoT. | (08 Marks)

Module-2

3 | a. | Explain Global and M₂M value chains. | (08 Marks)
| b. | Explain IoT value chains. | (08 Marks)

OR

4 | a. | With a neat diagram, explain IoT architecture outline. | (10 Marks)
| b. | Explain emerging industrial structure for IoT. | (06 Marks)

Module-3

5 | a. | Explain Basic and Advanced device types along with Gateways. | (08 Marks)
| b. | Explain how to manage M₂M data. | (08 Marks)

OR

6 | a. | Explain everything as a service (XaaS) | (06 Marks)
| b. | With the help of neat diagram, explain knowledge management. | (10 Marks)

Module-4

7 | a. | With the help of diagram, explain ETSI M₂M high level architecture. | (08 Marks)
| b. | Explain ETSI M₂M service capabilities. | (08 Marks)

OR

8 | a. | In short explain ITU – IoT reference model with a diagram. | (10 Marks)
| b. | Explain information description in information view. | (06 Marks)

Module-5

9 | a. | Explain with a neat diagram SOCRADES Integration Architecture (SIA). | (10 Marks)
| b. | Explain IMC-AESOP web of things to cloud of things. | (06 Marks)

OR

10 | a. | Briefly explain commercial building automation phase one. | (08 Marks)
| b. | Explain evaluation of commercial building automation in terms of phase two. | (08 Marks)

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