18MCA542

USN | | | | | | | | | |

Fifth Semester MCA Degree Examination, Jan./Feb. 2021
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. Define Internet of Things. Explain M2M communication. **(10 Marks)**
   b. Explain System Components of an M2M solution with example. **(10 Marks)**

OR

2. a. Explain Game Changers with example. **(10 Marks)**
   b. Distinguish between the main characteristics of M2M and IoT. **(10 Marks)**

Module-2

3. a. Explain Information Marketplaces with example. **(10 Marks)**
   b. Describe Global Value Chains with example. **(10 Marks)**

OR

4. a. Explain M2M Value Chain with example. **(10 Marks)**
   b. Describe the Information-driven global value chain with diagram. **(10 Marks)**

Module-3

5. a. Explain device properties and types with example. **(10 Marks)**
   b. What is Gateway? Explain with example. **(10 Marks)**

OR

6. a. Explain Device Management with example. **(10 Marks)**
   b. Describe Local and Wide Area Networking with example. **(10 Marks)**

Module-4

7. a. Describe European Telecommunications Standards Institute (ETSI) M2M level architecture with example. **(10 Marks)**
   b. Explain European Telecommunications Standards Institute (ETSI) M2M service capabilities with example. **(10 Marks)**

OR

8. a. Explain IoT Domain model with example. **(10 Marks)**
   b. Explain Information model and Function model with example. **(10 Marks)**

Module-5

9. a. Explain Functional requirements and non-functional requirements with example. **(10 Marks)**
   b. Explain Sensing and Communication field with example. **(10 Marks)**

OR

10. a. Explain Integrated device design with example. **(10 Marks)**
    b. Explain Data representation and Visualization with example. **(10 Marks)**

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