Total Page No. : 3]   [Roll No. ....
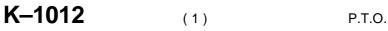
MCS–E11

MCA IVth Semester Examination Dec., 2023

INTRODUCTION TO INTERNET OF THINGS

Time : 2 Hours]   [**Max. Marks :** 70

Note **:–** This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

Section–A

(Long Answer Type Questions)   2×19=38

Note **:–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. What are enchanted objects ? Explain with examples how the technology has always been associated with magic.

2. What are the benefits of using IPV6 in IOT ? Explain the use of TCP and UDP ports. Give examples.

3. Which sensors are used in weather monitoring system ? Which IOT level is used for weather monitoring system ?

4. Illustrate Python programming. Explain Raspberry Pi with Implementation of IoT with Raspberry Pi.

5. What is Data Analytics ? How it is implemented in Data Handling ?

Section–B

(Short Answer Type Questions) 4×8=32

Note :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. What is fog computing and its role in the development of smart applications ?

2. What are the applications of SDN ?

3. What lot ? What are the key application functionalities of IoT system ?

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4. How IoT is used in smart cities ?

5. Explain Machine-to-Machine Communication.

6. Define Integration of Sensors and Actuators with Arduino.

7. What is the use of Sensor-Cloud ?

8. Why fog computing is called fogging ?

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