MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Supplementary Examinations, April 2023
Internet of Things & Its Applications
(EEE, ECE, CSE, IT & AE)

Roll No										

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　　　**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1　What is Internet of Things (IoT). What are components required to design IoT Device and explain IoT eco system. **[14M]**

OR

2　What are sensors and actuators? Explain in detail. What is Machine to Machine communication (M2M)? **[14M]**

SECTION-II

3　Explain with example MQTT Protocol. What is the role of MQTT protocol in IoT? what are the features of MQTT protocol? **[14M]**

OR

4　What is role of Cloud Computing and Big Data in Internet of Things? Explain the IoT analysis. **[14M]**

SECTION-III

5　Explain the design methodology in the implementation of IoT applications. **[14M]**

OR

6　Explain about Raspberry Pi. **[14M]**

SECTION-IV

7　Give complete details of IoT Data Analytics Challenges **[14M]**

OR

8　What is cloud computing in IoT? And explain cloud services in IoT. **[14M]**

SECTION-V

9　Design a smart home automation system in IoT . **[14M]**

OR

10　Implement the air pollution monitoring system in IoT **[14M]**

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