

Code No: R18A0453

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**III B.Tech II Semester Regular/Supplementary Examinations, June 2022****Internet of Things & Its Applications**

(EEE, ECE, CSE, IT &amp; AE)

<b>Roll No</b>										
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**Time: 3 hours****Max. Marks: 70**

**Answer Any Five Questions**  
**All Questions carries equal marks.**  
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|----------|--|---|
| <b>1</b> | Describe IoT World Forum (IoTWF) standardized architecture.  | <b>[14M]</b>                              |
| <b>2</b> | a) With a neat diagram explain the architecture of IoT and Discuss IoT Challenges.<br>b) Explain Core IoT functional Stack   | <b>[7M]</b><br><b>[7M]</b>                |
| <b>3</b> | a) Explain different application layer protocols for the IoT.<br>b) Which protocol is used to link all the devices in the IoT? Explain in detail.                                | <b>[7M]</b><br><b>[7M]</b>                |
| <b>4</b> | a) Describe MQTT framework and message format in detail.<br>b) Enlighten different IoT Protocols.  | <b>[7M]</b><br><b>[7M]</b>                |
| <b>5</b> | a) Sketch Arduino UNO depicting the pin diagram and explain in detail<br>b) Explain in detail about design methodology in the design and development of an embedded application. | <b>[7M]</b><br><b>[7M]</b>                |
| <b>6</b> | a) Give an overview of IoT supported hardware platforms<br>b) With a neat diagram explain Raspberry Pi interface.  | <b>[7M]</b><br><b>[7M]</b>                |
| <b>7</b> | a) Explain differences between<br>I. structured and unstructured data<br>II. Data in motion and Data at rest<br>b) How does M2M communication work? Explain.                     | <b>[4M]</b><br><b>[3M]</b><br><b>[7M]</b> |
| <b>8</b> | a) Explain the concept of Industry 4.0<br>b) Design a smart home automation system using IoT.  | <b>[7M]</b><br><b>[7M]</b>                |

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