

Please check that this question paper contains 09 questions and 01 printed pages within first ten minutes.

[Total No. of Questions: 09]

[Total No. of Pages: 01]

Uni. Roll No.

Program/ Course: B.Tech.
Semester: 5th
Name of Subject: Internet of Things
Subject Code: PCIT-111
Paper ID: 16442

13-01-2022(E)

Time Allowed: 02 Hours

Max. Marks: 60

NOTE:

- 1) Each question is of 10 Marks.
- 2) Attempt any **Six** questions out of Nine.
- 3) Any missing data may be assumed appropriately

- Q1.** Discuss RFIDs and Wireless Sensor Networks (WSNs) in detail.
- Q2.** Clarify the need and importance of Protocols. Explain in detail Lightweight M2M Communication Protocol and Constrained Application Protocol.
- Q3.** Illustrate in detail architectural components of IOT and M2M architecture. Also explain Machine-to-Machine (M2M) to IoT.
- Q4.** Justify role of connected devices in IOT. Discuss in detail Wired and Wireless Communication Technologies and their Comparison.
- Q5.** Discuss in detail Cloud Deployment Models. How the data Collection, Storage and Computing is done using a Cloud Platform.
- Q6.** Explain about the Privacy, Vulnerabilities of IoT. What are the Security Requirements and Threat Analysis in IOT?
- Q7.** Contrast between ITU-T (Telecommunication Standardization Sector of International Telecommunication Union) Reference Model and ETSI (European Telecommunications Standards Institute)
- Q8.** What is the role of JSON Format, Tag Length Value Format and MIME in web connectivity?
- Q9.** Discuss following: [05 Marks for each sub part]
 - a) Device Management Gateway
 - b) Application Layer Protocols.
