



R17 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 1E7ED

B.Tech IV Year I Semester Regular Examinations, February 2021

Internet of Things **(Computer Science and Engineering)**

Maximum Marks: 70

Date: 02.03.2021 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10x2M=20 Marks)

- 1 List out the parts of Physical design of IoT.
- 2 Describe the needs for Communication APIs in IOT.
- 3 Analyse which access technology is preferable for IOT, SDN or NFV?
- 4 Define the requirements of Network Operator in IoT.
- 5 Define Structured Data in IOT?
- 6 Define two important point about Python programming.
- 7 Assess the role Raspberry Pi and role of IOT in education.
- 8 Distinguish between IoT Physical devices and Endpoints.
- 9 Discuss cloud storage models & WAMP.
- 10 Define Smart traffic management system using IOT.

Part-B

Answer All the following questions. (10M X 5=50Marks)

- 11 Construct the IoT Logical design architecture with core functional stack. (10M)
OR
- 12 Categorize Sensors and list out the IoT enabling technologies with examples. (10M)
- 13 Construct NETCONF-YANG based network Architecture for Systems management of IoT. (10M)
OR
- 14 Discuss the Pros and cons of M2M and IoT. (10M)
- 15 Choose and describe an example for IoT Design Methodology? (10M)
OR
- 16 Appraise python packages of interest for IoT.(10M)
- 17 Explain the detailed features of IoT devices, Board and Interfaces. (10M)
OR
- 18 Discuss about programming for Raspberry-Pi with Linux and Python. (10M)
- 19 Define python web application framework – Django and Xively cloud. (10M)
OR
- 20 Construct the architecture of Smart Parking & smart traffic management system in IOT. (10M)