R18 Regulation *Subject code:* 2E7EI

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VII Semester Supplementary Examinations, July 2022

INTERNET of THINGS

(Computer science & Engineering)

Maximum Marks: 70 Date:05.07.2022 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 which carries 10M.
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 Write about the different IoT Enabling Technologies
2 Define Things in IoT
3 Briefly summarize M2M
4 How many kinds of YANG nodes are there? Explain?
5 Define keyword argument with an example
6 List out various service types
7 List out the operating systems supported by the Raspberry Pi
8 What is the role of IoT and Rasberry Pi in education?
9 Write a code snippet in python for connecting Dynamo
10 What is the role of Router in WAMP

Part-B

Answer All the following questions. **(10MX 5=50Marks)**

11 Explain about Logical Design of IoT (10 M)

OR

12 Explain about IoT levels and Deployment Templates (10 M)

13 A. Write in detail about Network Operator Requirements (5 M)
B. Describe the role of NFV in IoT devices (5 M)

OR

14 A. Discuss the merits and demerits of IOT &M2M (5 M)
B. "SNMP is unsuitable for IoT system" justify your answer (5 M)

15 A. Describe with an example for IoT Design Methodology (10 M)

OR

16 A. Explain Function overriding in python with an example (5 M)
B. Differentiate procedure oriented programming and object oriented programming (5 M)

17 A. Illustrate the role of I2C and SPC interfaces on Raspberry Pi (5 M)
B. summarize GPIO pins in Raspberry Pi (5 M)

OR

18 Explain Raspberry Pi with neat diagram (10 M)

19 Construct the architecture of smart lighting and intrusion detection system of IoT (10 M)

OR

20 How Amazon web services are useful for IoT? (10 M)