R18 Regulation *Subject code:2E7FB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2023

INTERNET OF THINGS

(Information Technology)

Maximum Marks: 70 Date:11.12.2023 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)		Bloom Tx
1	Definition of Internet of Things.	L1
2	Give examples of Big Data generated by IoT Systems	L1
3	Define Software Defined Networking.	L1
4	What is the difference between configuration and state data?	L1
5	What are main characteristics of Python?	L1
6	How to pass variable length arguments to the function?	L1
7	What is the use HDMI output port in Raspberry pi ?	L1
8	What is the use of SPI and IC2 interface on Raspberry Pi?	L1
9	What is the commands to setup MySQL?	L1
10	Defining the URL patterns	L1
	Part-B	
Answer All the following questions. (5X10M=50Marks)		
11	Explain different IoT communication models. [10]	L2
	OR	
12	Determine the IoT levels for designing home automation IoT systems including smart lightening and intrusion detection. [10]	L2
13	Differentiate between IoT and M2M. [10]	L2
	OR	
14	Discuss about IoT system management with NETCONF-YANG. [10]	L2
15	Explain the module concept in python and write example program. [10]	L2
	OR	
16	Explain file handling in python and its modes with an example program. [10]	L2
17	Demonstrate controlling LED with Raspberry Pi. [10]	L2
	OR	
18	Explain basic building of an IoT device. [10]	L2
19	Describe Web Application Messaging Protocol in detail. [10]	L2
	OR	
20	Explain Django Architecture in detail. [10]	L2