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 2025

INTERNET OF THINGS

(IT)

Maximum Marks: 70 Date:24.11.2025 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)		Marks	CO	BTL
1	Definition of Internet of Things.	2M	1	L1
2	What is Cloud Computing?	2M	1	L1
3	What is the role of M2M gateway?	2M	2	L1
4	What is the role of NETOPEER server?	2M	2	L1
5	What is the difference between list and tuples?.	2M	3	L1
6	How to pass variable length arguments to the function?	2M	3	L1
7	What is the use HDMI output port in Raspberry pi ?	2M	4	L1
8	How to configure Raspberry pi ?	2M	4	L1
9	What is the function of Django templates?	2M	5	L1
10	How to install Django REST framework?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain different IoT communication models.	10M	1	L2
	OR			
12	Determine the IoT levels for designing home automation IoT systems including smart lightening and intrusion detection	10M	1	L2
13	Explain Software Defined Networking Architecture.	10M	2	L2
	OR			
14	Discuss about IoT system management with NETCONF-YANG	10M	2	L2
15	Explain list, tuples and dictionaries with examples.	10M	3	L2
	OR			
16	Explain several functions for date and time access and conversions. Give Examples of manipulating with date and time.	10M	3	L2
17	Demonstrate interface an LED and switch with Raspberry Pi.	10M	4	L2
	OR			
18	Explain basic building of an IoT device.	10M	4	L2
19	Demonstrate Python code for sending data to Xively cloud.	10M	5	L2
	OR			
20	Discuss in detail about the designing a RESTful web API.	10M	5	L2