R22 Regulation *Subject code:4O6DA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, April 2026

INTERNET OF THINGS

(ECE)

Maximum Marks: 60 Date:23.04.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 10 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 (10X1M=10 Marks)		Marks	CO	Bloom Tx
1.a)	Give the classical definition of IOT?	1M	1	L1
b)	Mention two key characteristics of IoT devices.	1M	1	L1
c)	Define Simple Network Management Protocol (SNMP).	1M	2	L1
d)	What is SDN?	1M	2	L1
e)	Name two types of loops used in Python.	1M	3	L1
f)	What is an exception in Python?	1M	3	L1
g)	List two key features of the Django framework.	1M	4	L1
h)	Name two applications where Raspberry Pi is commonly used.	1M	4	L1
i)	Define home automation in IoT.	1M	5	L1
j)	What sensors are commonly used for weather reporting?	1M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
2	Examine the impact of IoT in environmental monitoring and sustainability.	10M	1	L3
	OR			
3	Examine the physical design of IoT and its components with relevant examples.	10M	1	L3
4	Analyze the differences between IoT and M2M.	10M	2	L4
	OR			
5	Formulate a detailed strategy for addressing network operator requirements in large-scale IoT deployments.	10M	2	L4
6	Investigate the role of date/time operations in Python and their applications in IoT.	10M	3	L3
	OR			
7	Discuss various Python packages of interest for IoT and their functionalities.	10M	3	L3
8	Analyze the role of Django in developing IoT-based web applications.	10M	4	L4

	OR			
9	Provide an introduction to Raspberry Pi, highlighting its purpose and applications.	10M	4	L4
10	Assess the effectiveness of real-time IoT solutions for monitoring soil health in agriculture.	10M	5	L3
	OR			
11	Examine the role of IoT-enabled drones in modern farming techniques.	10M	5	L3