R20 Regulation *Subject code: 3E7FF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

INTERNET OF THINGS

(IT)

Maximum Marks: 70 Date: 13.05.2026 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	Define the IoT.	2M	1	L1
2	List out the interfaces used in IoT.	2M	1	L1
3	What is the role of NETCONF server?	2M	2	L1
4	Define IPV6, and IPV4.	2M	2	L1
5	What is the role of MQTT protocol in IoT?	2M	3	L1
6	Define Software defined Network.	2M	3	L1
7	List two components of an Arduino board.	2M	4	L1
8	Write GPIO pins in Raspberry Pi.	2M	4	L1
9	What is Zigbee?	2M	5	L1
10	List Cloud Storage Models.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Write the different application layer protocols for the IoT. b) Explain the various functional blocks of IoT.	10M	1	L2
	OR			
12	Explain Characteristics and applications of IoT.	10M	1	L2
13	Discuss the architecture of SDN and its impact on IoT.	10M	2	L2
	OR			
14	Explain in detail all Network Operator Requirements.	10M	2	L2
15	Explain about strings, lists and tuples and various operations performed on them in python?	10M	3	L2
	OR			
16	What is the importance of purpose & Requirements specification in IoT Design Methodology?	10M	3	L2
17	Explain briefly about basic building blocks of IOT device.	10M	4	L2

	OR			
18	Discuss the role of Arduino and Raspberry Pi in IoT applications.	10M	4	L2
19	Discuss the various cloud storage models for IoT.	10M	5	L2
	OR			
20	Analyze the importance of Amazon Web Services for IoT deployments.	10M	5	L2