R20 Regulation *Subject code:3O7BC*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

INTERNET OF THINGS

(EEE)

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	Write the needs for Communication APIs in I o T.	2M	1	L1
3	Define the requirements of Network Operator in I o T.	2M	2	L1
4	What are the major layers in I o T Architecture?	2M	2	L1
5	Define S D N and N F V.	2M	3	L1
6	Write the Need for IOT systems management.	2M	3	L1
7	What are the Cloud Storage models?	2M	4	L1
8	List Features of Arduino Board.	2M	4	L1
9	Write the I O T Connectivity technologies	2M	5	L1
10	Explain the Amazon Web Services for I o T	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain Characteristics, Applications and Challenges of IoT.	10M	1	L2
	OR			
12	With neat diagram, describe the Levels of I o T with an example.	10M	1	L2
13	Explain IoT system management with YANG - NETCONF.	10M	2	L2
	OR			
14	a) Describe the generic approach for IoT system management. b) Explain the N F V Architectures in detail.	5M 5M	2	L2
15	Explain the Wired and Wireless I o T Connectivity Technologies.	10M	3	L2
	OR			
16	Explain the Challenges of Wireless Sensor Networks?	10M	3	L2
17	Write the Program Elements and Function Libraries of Arduino?	10M	4	L2
	OR			
18	Explain RASPBERRY Architecture with neat sketch.	10M	4	L2
19	Discuss about IoT Platforms Design Methodology	10M	5	L2
	OR			
20	Explain the WAMP-Auto Bahn for IoT.	10M	5	L2