



R20 Regulation

Subject code:3E7EL

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

INTERNET OF THINGS

(CSE)

Maximum Marks: 70

Date: 28.11.2025

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	Define the Internet of Things (IoT).	2M	1	L1
2	What are the essential components of the physical design in an IoT system?	2M	1	L1
3	What are two common applications of M2M technology?	2M	2	L1
4	What is SDN.	2M	2	L1
5	What is RFID, and how is it used in IoT applications?	2M	3	L1
6	List the main components of a sensor node in a WSN.	2M	3	L1
7	Name three main components of an Arduino board.	2M	4	L1
8	Name two applications where Raspberry Pi is commonly used.	2M	4	L1
9	What is cloud storage?	2M	5	L1
10	Define WAMP.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the logical design of IoT systems, focusing on the main functional blocks.	10M	1	L2
OR				
12	Identify and analyze the major challenges facing IoT implementation.	10M	1	L2
13	Discuss the concepts of the Internet of Things (IoT) and Machine-to-Machine (M2M) communication.	10M	2	L2
OR				
14	Discuss the concept of rule replacement in SDN.	10M	2	L2
15	Explain key connectivity terminologies in IoT networking	10M	3	L2
OR				
16	Discuss the components of a sensor node in a Wireless Sensor Network (WSN).	10M	3	L2
17	Discuss the key features of the Arduino platform.	10M	4	L2
OR				
18	Explain the architecture of Raspberry Pi.	10M	4	L2

19	What is WAMP (Web Application Messaging Protocol), and how does it apply to IoT?	10M	5	L2
	OR			
20	Describe the features and services provided by AWS IoT.	10M	5	L2