



R20 Regulation

Subject code: 307DC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

INTERNET OF THINGS (ECE)

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	What are the different levels IoT.	2M	1	L1
2	What is the Internet of Things (IoT)?	2M	1	L1
3	What is M2M?	2M	2	L1
4	Define IPV6, 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	Define Arduino.	2M	4	L1
8	What is Raspberry Pi?	2M	4	L1
9	What are the advantages of using WAMP in IoT?	2M	5	L1
10	Define Fog Computing.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Describe the IoT components and their implementation in real-world applications.	10M	1	L2
OR				
12	Analyze the role of baseline technologies in IoT with relevant examples.	10M	1	L2
13	Discuss the architecture of SDN and its impact on IoT.	10M	2	L2
OR				
14	Analyze the need for network operator requirements in IoT systems.	10M	2	L2
15	Discuss gateway prefix allotment and its impact on IoT addressing.	10M	3	L2
OR				
16	Explain the structure and functions of a wireless sensor node in IoT.	10M	3	L2
17	Describe the function libraries in Arduino and their usage in IoT projects.	10M	4	L2
OR				
18	Explain the GPIO configuration and programming in Raspberry Pi.	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