



R20 Regulation

Subject code:307BC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

INTERNET OF THINGS

(EEE)

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 advantages of I o T devices?	2M	1	L1
2	Describe 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	Explain the Need for IOT systems management.	2M	3	L1
7	What are the Function Libraries of Linux?	2M	4	L1
8	What is RASPBERRY?	2M	4	L1
9	What is IoT Platforms Design Methodology	2M	5	L1
10	Write the Cloud Storage Models.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Explain the Physical and Logical design of IoT Systems. b) Summarize the Various Characteristics of IoT.	5M 5M	1	L2
OR				
12	With neat diagram, describe the Levels of I o T with an example.	10M	1	L2
13	Explain I o T system management with YANG - NETCONF.	10M	2	L2
OR				
14	a) Explain the S D N Architectures in detail. b) Explain the N F V Architectures in detail.	5M 5M	2	L2
15	Write 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	Explain the Components of IOT devices.	10M	4	L2
OR				
18	Explain RASPBERRY Architecture with neat sketch.	10M	4	L2
19	Explain the WAMP-Auto Bahn for IoT	10M	5	L2
OR				
20	With a neat diagram, explain the Amazon Web Services for IoT.	10M	5	L2