



R20 Regulation

Subject code: 3E7FF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

INTERNET OF THINGS

(IT)

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	Give the classical definition of IOT?	2M	1	L1
2	Draw the generic block diagram of IOT device?	2M	1	L1
3	What is the role of NETCONF server?	2M	2	L1
4	Describe the role of YANG and TransAPI modules in device management?	2M	2	L1
5	What are variable length arguments?	2M	3	L1
6	What is an IOT device?	2M	3	L1
7	What is the work of SPI interface in Raspberry Pi?	2M	4	L1
8	Write briefly about pcDuino?	2M	4	L1
9	Write any three python packages of Interest?	2M	5	L1
10	Explain about Deployment model?	2M	5	L1

Part-B

Answer All the following questions.

(5X10M=50Marks)

		Marks	CO	BTL
11	Define IOT and explain the characteristics of IOT.	10M	1	L2
	OR			
12	Describe briefly physical design of IOT.	10M	1	L2
13	Write in detail about the differences between IOT and M2M?	10M	2	L2
	OR			
14	Write 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	Explain about Raspberry Pi in detail.	10M	4	L2
19	Design the RESTful API in IOT.	10M	5	L2
	OR			
20	Explain briefly about the characteristics of cloud computing.	10M	5	L2