



R20 Regulation **Subject code: 3E7EL**
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)
B.Tech VII Semester Regular Examinations, November 2023
Internet of Things
 (Computer Science and Engineering)

Maximum Marks: 70

Date: 06.12.2023 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 which carries 10M.
 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)	Bloom Tx
1	List out and explain the characteristics of IoT.		L1
2	Define actuators.		L1
3	Define SDN and List out its advantages.		L1
4	Write about the purpose of SNMP.		L1
5	Define WSN.		L1
6	List the features of IEEE 802.15.4.		L1
7	Write about String objects?		L1
8	Define Interrupts.		L1
9	Define WAMP protocol.		L1
10	Write about Amazon services for IoT?		L1

Part-B

Answer All the following questions.		(5X10M=50Marks)	
11	A. Explain general block diagram of IOT device.	(5M)	L2
	B. Write the different IoT Protocols.	(5M)	L1
OR			
12	Explain about Sensors and list out the IoT enabling technologies with examples. (10M)		L2
13	A. Distinguish between IOT and M2M. (4M)		L2
	B. Explain NFV architecture in detail. (6M)		L2
OR			
14	What is the role of IoT NETCONF-YANG management? Explain. (10M)		L2
15	A. How sensor node is useful? explain its components? (5M)		L2
	B. Explain about connectivity terminologies in IOT. (5M)		L2
OR			
16	A. Explain about IOT Identification and Data Protocols. (5M)		L2
	B. Explain Smart Firewall Device. (5M)		L2

17	List and explain the components of Arduino Board.	(10M)	L2
	OR		
18	Explain about commonly used versions of Raspberry Pi.	(10M)	L2
19	What are the cloud computing platforms used for IoT development? Explain?	(10M)	L2
	OR		
20	Describe the Web server for IoT. (10M)		L2