



B.Tech VII Semester Regular/Supplementary Examinations, December 2024

INTERNET OF THINGS
(IT)

Maximum Marks: 70

Date:02.01.2025

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 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)	CO	Bloom Tx
1	Discuss the characteristics of IoT		1	L3
2	Explain evolutionary phases of the Internet		1	L1
3	Write any two differences between IoT and M2M		2	L1
4	List mostly used sensors types in IoT		2	L1
5	What are the Control Statements in Python?		3	L1
6	What is an Interpreted language?		3	L1
7	Write the purpose of I2C Raspberry Pi interface?		4	L1
8	List out the Raspberry Pi interfaces?		4	L1
9	List out the cloud storage models?		5	L1
10	What is Xively cloud service?		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)	CO	Bloom Tx
11	Demonstrate the physical design of IoT with Things of IoT and protocols of IoT. [10M]		1	L2
OR				
12	Describe functional blocks of IoT. [10M]		1	L1
13	Difference between IoT and M2M [10M]		2	L2
OR				
14	Briefly discuss about IOT design methodologies. [10M]		2	L1
15	Discuss the Motivation for Using Python. [10M]		3	L3

	OR		
16	Explain briefly about i) Control flow ii) Packages iii) File handling of IoT. [10M]	3	L1
17	Explain Software Defined Networking (SDN) with architecture and discuss various key elements with neat sketch. [10M]	4	L1
	OR		
18	Explain briefly about the Raspberry Pi with Diagram and Raspberry Pi interfaces with an example. [10M]	4	L1
19	Discuss the case study of smart cities in IoT. [10M]	5	L3
	OR		
20	Explain about service and deployment models used in IoT Cloud? [10M]	5	L1