

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022****Subject Code:3171108****Date:18/06/2022****Subject Name:Internet of things****Time:02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Define Internet of Things and explain it in brief.	03
	(b) Determine the applications of Internet of Things.	04
	(c) Describe IoT architecture in detail.	07
Q.2	(a) Discuss the IoT Sensors.	03
	(b) Describe the characteristics of IoT.	04
	(c) Explain Smart Home Automation in detail.	07
OR		
	(c) Explain how Smart City and IoT are associated with each other?	07
Q.3	(a) Write applications of Internet of Things for Medical field.	03
	(b) Discuss vulnerabilities of Internet of Things.	04
	(c) Describe Internet of Things protocols in detail.	07
OR		
Q.3	(a) Write applications of Internet of Things for Smart Parking in Smart City.	03
	(b) Describe Constrained application protocol.	04
	(c) Explain access control and message integrity of Internet of Things in detail.	07
Q.4	(a) Discuss IoT Levels in details.	03
	(b) Describe Transport layer protocol.	04
	(c) Describe Gas Sensors in brief.	07
OR		
Q.4	(a) Write short note on Network layer protocols.	03
	(b) Describe IoT Gateway in brief.	04
	(c) Describe how does a sensor data travel from one device to the Cloud?	07
Q.5	(a) Write short note on Message Queue Telemetry Transport protocol.	03
	(b) Determine the challenges in IoT Security.	04
	(c) Describe recent developments and future aspects of IoT in brief.	07
OR		
Q.5	(a) Describe Security components in IoT Security.	03
	(b) Define the roles of IoT in Health Care Monitoring.	04
	(c) Explain Commercial IoT with an example.	07
