

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER- VII EXAMINATION-SUMMER 2023****Subject Code: 3170627****Date: 30/06/2023****Subject Name: ICT For Development****Time: 10:30 AM TO 01:00 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 following terms: a) Packet b) Circuit c) Router	03
	(b) Write a short note on fiber optics.	04
	(c) Write a short note on RFID technology.	07
Q.2	(a) Define: LAN, WAN & MAN	03
	(b) What is GIS. Explain in detail the components of GIS.	04
	(c) Give advantages and disadvantages of cloud technology.	07
	OR	
	(c) Justify the statement: "Cloud computing is an emerging area of infrastructure development."	07
Q.3	(a) Briefly explain concept of Data center.	03
	(b) Give difference between Primary and secondary storage.	04
	(c) Differentiate between software as a service (SaaS) and Platform as a service (PaaS).	07
	OR	
Q.3	(a) What are the roles of ERP in the CRM?	03
	(b) Write the short note on Operating Systems.	04
	(c) What is IaaS? Give role of IaaS in cloud computing.	07
Q.4	(a) Briefly explain smart security.	03
	(b) Give the role of IoT in civil engineering.	04
	(c) Enlist various types of sensors. Give detail explanation of any two types of sensors.	07
	OR	
Q.4	(a) Briefly explain smart sanitation.	03
	(b) Explain following terms: 1. Temperature Sensor, 2. Pressure Sensor	04
	(c) Explain the term Smart Home. How Smart Mobility and Smart Public Safety helpful for smart homes.	07
Q.5	(a) Explain the importance of virtual machine.	03
	(b) Briefly explain hardware-level virtualization.	04
	(c) Write the short note on use of Augmented Reality (AR) in navigation.	07
	OR	
Q.5	(a) Briefly explain AR in search engine.	03
	(b) Define virtualization. Explain para virtualization.	04
	(c) Explain VR technology. Give its application in civil engineering.	07