Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VII (NEW) EXAMINATION – WINTER 2022

Subject Code:3170627   **Date:07-01-2023**
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 the terms: 1. Packet, 2. Circuit, 3. Routers.	03
	(b)	Give the importance of internet and computer as a key feature of tool of modern Information and communication technology.	04
	(c)	Give the different types of topology. Explain each in detail.	07
Q.2	(a)	Define : LAN, WAN, and MAN	03
	(b)	Explain GIS and its application in civil engineering.	04
	(c)	Briefly explain types of primary storage and secondary storage.	07
		OR	
	(c)	What is IP addressing? Give the detail explanation class-A, class-B and class-C addresses.	07
Q.3	(a)	Explain the term cloud computing.	03
	(b)	Explain the roles of ERP in the CRM?	04
	(c)	Explain Cloud computing and explain the concept of SaaS in detail	07
		OR	
Q.3	(a)	Write the short note on Operating Systems.	03
	(b)	Write a note on RFID technology.	04
	(c)	Differentiate between software as-a service (SaaS) and platform as-a service (PaaS).	07
Q.4	(a)	Justify the statement: "IoT the emerging technology for Civil Engineering."	03
	(b)	Explain smart public safety and smart sanitation.	04
	(c)	Explain the concept of smart homes.	07
		OR	
Q.4	(a)	What is sensor? Briefly explain types of sensor.	03
	(b)	Give the application of IoT in Civil Engineering.	04
	(c)	Enlist various types of sensors. Explain any three types of sensor in detail.	07
Q.5	(a)	Justify the statement – "AR and VR technologies are a new key feature in civil engineering."	03
	(b)	Explain the importance of virtual machine.	04
	(c)	Differentiate between Augmented reality & Virtual reality.	07
		OR	
Q.5	(a)	Give the advantages and disadvantages of Augmented Reality (AR).	03
	(b)	Define virtualization. Explain para virtualization.	04
	(c)	Define Augmented reality and virtual reality. Write the short note on application of such technology in navigation.	07

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