GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VII (NEW) EXAMINATION – WINTER 2021

Subject Code: 3170627   **Date:27/12/2021**
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: LAN, WAN and MAN.	03
	(b)	Justify the statement: "Computer and Internet - The key feature of modern Information and communication technology."	04
	(c)	What are the various network topologies explain with example?	07
Q.2	(a)	Define GIS. Give the application of GIS in civil engineering.	03
	(b)	What is Cloud computing? Give the types of cloud deployment.	04
	(c)	What is IP addressing? Give the detail explanation class A, class B and class C addresses.	07
		OR	
	(c)	Define RFID technology. Give its uses in construction.	07
Q.3	(a)	Define ERP. Briefly explain the components of the ERP system.	03
	(b)	Give the difference between wireless networks and Mobile network.	04
	(c)	Explain Cloud computing and explain the concept of IaaS in detail.	07
		OR	
Q.3	(a)	What are the roles of ERP in the CRM?	03
	(b)	What is Primary and secondary storage?	04
	(c)	Differentiate between software-as-a-service (SaaS) and platform-as-a-service (PaaS).	07
Q.4	(a)	Give the detail short note on Smart Public Safety.	03
	(b)	What are the uses of IoT in civil engineering?	04
	(c)	Write down different types of Sensors. Explain Temperature sensor and Fibre Optic Sensor in detail.	07
		OR	
Q.4	(a)	Explain in briefly how Sensor works?	03
	(b)	Explain following terms: 1. Moisture sensor 2. Tilt sensor	04
	(c)	Write detailed short note on Concept of Smart Home.	07
Q.5	(a)	Justify the statement: "AR and VR technologies are emerging trends for development."	03
	(b)	Define virtualization. Explain types of virtualization.	04
	(c)	Write the short note on Use of augmented reality (AR) in navigation.	07
		OR	
Q.5	(a)	Explain the concepts of virtual machine	03
	(b)	Give the advantages and disadvantages of Augmented Reality (AR).	04
	(c)	Differentiate between Augmented reality & Virtual reality.	07

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