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

Subject Code:3170627   **Date:06/06/2022**
Subject Name:ICT For Development
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 the terms: LAN, WAN and MAN.	03
	(b)	Briefly explain managed and unmanaged switches.	04
	(c)	What are the various network topologies explain with example?	07
Q.2	(a)	Define the terms: 1. Packet, 2. Circuit and 3. Router.	03
	(b)	What is Cloud computing? Give the types of cloud deployment.	04
	(c)	What is GIS? Explain in detail Components of GIS.	07
		OR	
	(c)	What is IP addressing? Give the detail explanation class A, class B and class C addresses.	07
Q.3	(a)	What are the roles of ERP in the CRM?	03
	(b)	Give difference between Primary and secondary storage.	04
	(c)	Explain term cloud computing? Explain the concept PaaS in detail.	07
		OR	
Q.3	(a)	Write short note on Operating System.	03
	(b)	Explain uses of RFID technology in construction.	04
	(c)	Differentiate between software-as-a-Service (SaaS) and platform-as-a-Service (PaaS).	07
Q.4	(a)	Explain the terms: 1. Smart Security, 2. Smart Mobility and 3. Smart Sanitation.	03
	(b)	Explain in briefly how Sensor works and enlist the types of sensors.	04
	(c)	Define Internet of Things. How it plays an important role for Smart home.	07
		OR	
Q.4	(a)	Justify the statement: "IoT – The emerging technology in the field of Civil Engineering."	03
	(b)	What are the uses of IoT in civil engineering?	04
	(c)	Write detailed short note on Concept of Smart Home.	07
Q.5	(a)	Explain the concepts of virtual machine.	03
	(b)	Give the advantages and disadvantages of AR-VR technology.	04
	(c)	Differentiate between Virtual reality & Augmented reality.	07
		OR	
Q.5	(a)	Define virtualization. Explain in detail types of virtualization.	03
	(b)	Define Virtual Machine. Explain Para-Virtualization in detail.	04
	(c)	Write the short note on Use of augmented reality (AR) in navigation.	07

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