Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BVOC- SEMESTER– IV EXAMINATION – SUMMER 2023

Subject Code:21140203 Date:28-06-2023

Subject Name: Windows Configuration and Server Administration

Time:10:30 AM TO 12:30 PM Total Marks:50

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)**	Explain .NET page life cycle stages in detail.	**05**
	(b)	Explain master page and theme page in windows based application.	**05**
Q.2	**(a)**	Explain .NET framework architecture with its components.	**05**
	(b)	How can you integrate data in Windows Application? Explain with example.	**05**
		OR	
	(b)	Write ADO .NET program which shows records from doctor_master (name, email, city, and phone) on console.	**05**
Q.3	**(a)**	Draw and explain TCPI/IP Model. Also differentiate it with OSI model.	**05**
	(b)	Explain various transmission media.	**05**
		OR	
Q.3	**(a)**	Give the difference between Circuit switch and packet switched network.	**05**
	(b)	Explain the factors that are affecting the Network performance.	**05**
Q.4	**(a)**	Explain forward lookup and backward lookup in DNS.	**05**
	(b)	Consider a router that interconnects three subnets: Subnet 1, Subnet 2, and Subnet 3. Suppose all of the interfaces in each of these three subnets are required to have the prefix 223.1.17/24. Also suppose that Subnet 1 is required to support at least 60 interfaces, Subnet 2 is to support at least 90 interfaces, and Subnet 3 is to support at least 12 interfaces. Provide three network addresses (of the form a.b.c.d/x) that satisfy these constraints.	**05**
		OR	
Q.4	**(a)**	Explain conversion of MBR disk into a GPT disk.	**05**
	(b)	Consider a router that interconnects three subnets: Subnet 1, Subnet 2 and Subnet 3. Suppose all the interfaces in each of these three subnets are required to have the prefix 172.168.15/24. Also suppose that Subnet 1 is required to support up to 62 interfaces, Subnet 2 is required to support up to 110 interfaces and Subnet 3 is required to support up to 15 interfaces. Provide three network addresses (of the form a.b.c.d/x) that satisfy these constraints.	**05**
Q.5	**(a)**	What is the DHCP process for client machine? Also explain DHCP in brief.	**05**
	(b)	Explain DNS in detail.	**05**
		OR	
Q.5	**(a)**	State the steps for backup and recovery of Active Directory.	**05**
	(b)	Explain components of Active Directory.	**05**