

GUJARAT TECHNOLOGICAL UNIVERSITY**BVOC - SEMESTER-IV EXAMINATION – WINTER 2022****Subject Code:1140203****Date:15-12-2022****Subject Name:Window 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) Draw and explain OSI Model.	05
	(b) Explain DNS in detail.	05
Q.2	(a) Explain various types of Windows Applications.	05
	(b) Create a user feedback form for a restaurant which includes username, email, address, PIN and feedback with all necessary validations.	05
OR		
	(b) Create a student registration form which contains roll number, name, address, email and mobile number with all necessary validations.	05
Q.3	(a) Explain framework of ADO .NET.	05
	(b) Explain any five Data Bound Controls in brief.	05
OR		
Q.3	(a) Explain service types Win32OwnProcess and Win32ShareProcess for Windows Applications in detail.	05
	(b) Explain master page and theme page in Windows based application.	05
Q.4	(a) Explain various types of network topologies.	05
	(b) One of the addresses in a block is 17.63.110.114/24. Find the subnet mask, first address, number of networks, number of hosts, the last address in the block.	05
OR		
Q.4	(a) Explain various transmission media.	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
Q.5	(a) Explain components of Active Directory.	05
	(b) What is the DHCP process for client machine? Also explain DHCP in brief.	05
OR		
Q.5	(a) Explain conversion of MBR disk into a GPT disk.	05
	(b) Explain the integration between DHCP and DNS.	05
