

GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Vocation - SEMESTER - IV EXAMINATION - WINTER 2025

Subject Code: 21140203

Date: 17-11-2025

Subject Name: Window Configuration and Server Administration

Time: 02:30 PM TO 04:30 PM

Total Marks: 50

Instructions

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

	Marks
Q.1 (a) Draw and explain .NET framework architecture with its components.	05
(b) Explain the following objects of ADO.NET: SqlConnection, SqlDataReader, SqlCommand.	05
Q.2 (a) Explain Win32OwnProcess and Win32ShareProcess in detail.	05
(b) What are data-bound controls? Explain any five in detail.	05
OR	
(b) What are Windows deployment methods? Explain any five in detail.	05
Q.3 (a) How is a network defined? State at least five differences between LAN, MAN, and WAN.	05
(b) Draw and explain the OSI model.	05
OR	
(a) How is a network topology defined? Describe various network topologies in detail with a diagram and their advantages and disadvantages.	05
(b) Draw and explain the TCP/IP model.	05
Q.4 (a) How is Active Directory defined? Describe its components in detail.	05
(b) Explain various transmission media in detail.	05
OR	
(a) How are zones classified in DNS? Describe Primary Zone, Secondary Zone, and Stub Zone in DNS.	05
(b) Explain the different types of volume in detail.	05
Q.5 (a) Explain forward lookup and backward lookup in DNS	05
(b) Explain the working of the super scope in DHCP in detail.	05
OR	
(a) Explain the steps for backup and recovery of Active Directory.	05
(b) Explain the integration between DHCP and DNS.	05
