Reg. No. | | | | | | | | |

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.
(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
V	PART - III	CORE	U21CS506	.NET TECHNOLOGY

Date & Session: 05.11.2024 / FN   **Time : 3 Hours**   **Maximum 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	Which of the following components is responsible for executing .NET applications? a) .NET Class Library b) Common Language Specification (CLS) c) Common Language Runtime (CLR) d) Base Class Library (BCL)
CO1	K2	2.	The primary purpose of IIS in the context of ASP.NET applications is _. a) To compile the ASP.NET code b) To serve web pages and handle web requests c) To manage the database connection d) To design the user interface
CO2	K1	3.	_____file is used to configure ASP.NET settings such as authentication, authorization, and custom error pages. a) Global.asax b) Web.config c) Machine.config d) AssemblyInfo.cs
CO2	K2	4.	The Page class in ASP.NET is responsible for _____. a) Handling database connections b) Rendering the web page c) Managing application-level event d) Defining custom HTTP handlers
CO3	K1	5.	Which of the following is TRUE about Session State in ASP.NET? a) Session state is shared among all users of an ASP.NET application. b) Session state is unique for each user. c) Session state does not expire by default. d) Session state is stored on the client side.
CO3	K2	6.	_____class in ASP.NET is commonly used for logging errors. a) System.Diagnostics.Trace b) System.Exception c) System.Web.UI.Page d) System.IO.File
CO4	K1	7.	Which SQL command is used to retrieve data from a database? a) SELECT b) INSERT c) UPDATE d) DELETE
CO4	K2	8.	Which ADO.NET component is typically used to bind repeated values to a DataGrid? a) DataTable b) DataRow c) DataView d) DataSet
CO5	K1	9.	What role does the XmlSerializer class play in .NET applications? a) Transforming XML data b) Validating XML against a schema c) Serializing objects to and from XML d) Querying XML with LINQ
CO5	K2	10.	In which of the following formats is WSDL typically written? a) JSON b) XML c) YAML d) HTML

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer ALL Questions choosing either (a) or (b)
CO1	K3	11a.	Write the difference between VB.NET and C#.
			(OR)
CO1	K3	11b.	Determine the various data types supported by .NET. Explain how to declare the variable in C#?
CO2	K3	12a.	Describe the role of the Global.asax file in an ASP.NET application and explain how you can handle an application-level error using this file.
			(OR)
CO2	K3	12b.	Explain the significance of the Page_Load event in the ASP.NET page lifecycle and how differs from the Page_Init event.
CO3	K4	13a.	Analyze the process of creating and reading the custom cookie in ASP.NET.
			(OR)
CO3	K4	13b.	Illustrate how to throw a custom exception in ASP.NET?
CO4	K4	14a.	Examine the various characteristics of ADO.NET.
			(OR)
CO4	K4	14b.	Organize an ASP.NET program to Bind a single value from a database to a TextBox in a Windows Forms application.
CO5	K5	15a.	Interpret the steps involved in transforming an XML document using XSLT in .NET.
			(OR)
CO5	K5	15b.	Criticize the UDDI for Publishing and Discovery services with an example.

Course Outcome	Bloom's K-level	Q. No.	SECTION – C (5 X 8 = 40 Marks) Answer ALL Questions choosing either (a) or (b)
CO1	K3	16a.	Construct the .NET programming framework with neat diagram.
			(OR)
CO1	K3	16b.	Write the steps involved in setting up ASP.NET on IIS.
CO2	K4	17a.	Analyze how HTML server controls can be dynamically manipulated in the code-behind file to create an interactive user interface?
			(OR)
CO2	K4	17b.	Evaluate the use of ASP.NET validation controls in a web form.
CO3	K4	18a.	Analyze the pros and cons of using ViewState versus Session State for maintaining user-specific data in a web application with an example.
			(OR)
CO3	K4	18b.	Examine the importance of configuring custom error pages and how improper setup can impact the user experience and application security?
CO4	K5	19a.	Criticize the architecture of ADO.NET and how it supports both connected and disconnected data access?
			(OR)
CO4	K5	19b.	Create a program to display repeated data using the Repeater control in an ASP.NET Web Forms application.
CO5	K5	20a.	Assess the different methods available in the XmlReader class for reading XML data in a .NET application
			(OR)
CO5	K5	20b.	Design and implement a simple web service using SOAP that allows users to retrieve the current weather information based on a city name.