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



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.

(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: 03.11.2025/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 is not a .NET language? a) C# b) VB.NET c) Python d) J#
CO1	K2	2.	The IIS in ASP.NET stands for _____. a) Internet Information Server b) Internal Integrated System c) Internet Intranet Service d) International Information Setup
CO2	K1	3.	Which file contains application-level settings in ASP.NET? a) Web.config b) Global.asax c) App.config d) Startup.cs
CO2	K2	4.	HTML Server Controls differ from Web Controls because _____. a) They cannot maintain state b) They are derived directly from HTML tags c) They support event handling only in JavaScript d) They require XML configuration
CO3	K1	5.	Which ASP.NET object is used to store session data? a) Request b) Response c) Session d) Application
CO3	K2	6.	Custom cookies in ASP.NET are primarily used for _____. a) Reducing server memory usage b) Maintaining client-side state c) Exception handling d) Application shutdown
CO4	K1	7.	Which class is used in ADO.NET to establish a database connection? a) SqlCommand b) SqlConnection c) SqlDataReader d) SqlDataAdapter
CO4	K2	8.	DataGrid in ASP.NET is mainly used for _____. a) Displaying tabular data with interactive features b) Handling exceptions c) Managing state variables d) Creating XML documents
CO5	K1	9.	Which of the following is a standard protocol for Web Services? a) SMTP b) SOAP c) FTP d) POP3
CO5	K2	10.	WSDL in Web Services is used to _____. a) Define the structure of XML documents b) Describe web service interface and operations c) Transform XML into HTML d) Authenticate user sessions

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	11a.	Explain the architecture of the .NET Framework with a neat diagram. (OR)
CO1	K3	11b.	Discuss the role of Common Language Runtime (CLR) in .NET.
CO2	K3	12a.	Describe the process of creating a simple ASP.NET Web Form application. (OR)
CO2	K3	12b.	Explain the differences between HTML Server Controls and Web Controls with examples.
CO3	K4	13a.	Discuss various state management techniques in ASP.NET. (OR)
CO3	K4	13b.	Write short notes on Session State and Application State with suitable examples.
CO4	K4	14a.	Explain the steps involved in connecting an ASP.NET application to a SQL Server database using ADO.NET. (OR)
CO4	K4	14b.	Describe different types of data binding in ASP.NET with examples.
CO5	K5	15a.	Explain the role of XML in Web Services architecture. (OR)
CO5	K5	15b.	Write a note on SOAP and WSDL in Web Services.

Course Outcome	Bloom's K-level	Q. No.	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	16a.	Explain the .NET languages and their key features with suitable examples. (OR)
CO1	K3	16b.	Discuss the steps for setting up ASP.NET and IIS.
CO2	K4	17a.	Explain the use of Global.asax file in ASP.NET with suitable examples. (OR)
CO2	K4	17b.	Describe the process of validating controls in ASP.NET applications.
CO3	K4	18a.	Discuss Exception Handling in ASP.NET with an example program. (OR)
CO3	K4	18b.	Explain Page Tracing and Error Pages in ASP.NET with examples.
CO4	K5	19a.	Explain the ADO.NET object model in detail with a neat diagram. (OR)
CO4	K5	19b.	Write a program in ASP.NET using ADO.NET to perform CRUD operations on a database.
CO5	K5	20a.	Discuss in detail about XML and its role in .NET with examples. (OR)
CO5	K5	20b.	Explain the working of Web Services Discovery and UDDI with a neat diagram.