

P P SAVANI UNIVERSITY

Fifth Semester of B. Tech. Examination

December 2021

SECE3511 Programming with .Net

16.12.2021, Thursday

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

- Q - 1 Answer the Following: (Any five) [05]
- (i) Define namespace.
 - (ii) What is Unmanaged code?
 - (iii) What is CLR?
 - (iv) Which inheritance C# does not support?
 - (v) What is constructor?
 - (vi) What is function overloading?
 - (vii) What is use of using keyword?
- Q - 2 (a) Explain .net architecture in detail with diagram. [05]
- Q - 2 (b) Explain operator overloading with an example. [05]
- OR
- Q - 2 (a) Explain different types of inheritance with an example. [05]
- Q - 2 (b) Differentiate between indexers and properties. [05]
- Q - 3 (a) How c# handles errors? Explain with suitable code. [05]
- Q - 3 (b) What is Dell hell problem? [05]
- OR
- Q - 3 (a) What is constructor? Explain different constructors with example. [05]
- Q - 3 (b) What are namespaces in .net? [05]
- Q - 4 Attempt any one. [05]
- (i) CLR
 - (ii) Function overloading.

SECTION - II

- Q - 1 Answer the Following: (Any five) [05]
- (i) What is the use of DataAdapter in ADO.NET ?
 - (ii) Which method of command object return scalar value?
a) ExecuteReader b) ExecuteNonQuery c) ExecuteScalar d) ExecuteQuery
 - (iii) Which property of windows form is used to convert simple form to MDI form?
 - (iv) Which programming model should you implement if you want to separate your server- side code from your client-side layout code in a Web page?
a) Single file model b) Code-behind model c) Inline model d) Client-server model
 - (v) What is the difference between Form.Show() method and Form.ShowDialog() method?
 - (vi) Attribute must be set on a validator control for the validation to work
a) ControlToBind b) ValidateControl c) ControlToValidate d) Validate
 - (vii) Define State Management.
- Q - 2 (a) Explain MenuStrip and ContextMenuStrip with example in detail. [05]
- Q - 2 (b) Write a Short note on GDI+. [05]
- OR
- Q - 2 (a) Enlist Validation controls in ASP.NET and explain any two controls with proper example. [05]

Q - 2 (b) Write a windows form C# program to change background color of the form when user selects particular name of the color from dropdown list. [05]

Q - 3 (a) Write a C# code to read data from given table and bind data to gridview control using dataadapter. [05]

Table: Employee (EmpCode, EmpName, DeptCode, Address, Mobile)

Q - 3 (b) Explain various mouse and keyboard events. [05]

OR

Q - 3 (a) Explain Repeater and DataList control in detail. [05]

Q - 3 (b) Explain use of Master Page in ASP.NET with example. [05]

Q - 4 Attempt any one. [05]

(i) Explain ASP.NET page life cycle.

(ii) Explain the concept of cookie in web application.

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SECTION - I

Q - 1 Answer the Following: (Any five) [05]

- (i) Which of the following assemblies can be stored in Global Assembly Cache?
a) Private Assemblies b) Friend Assemblies c) Protected Assemblies
Shared Assemblies
- (ii) What is JIT?
- (iii) What is the use of finalize () method?
- (iv) The process of executing multiple versions of an application or a component on a computer is known as _____.
a) Side by Side Execution b) Code Compilation c) Managed Execution
Versioning
- (v) What is property in C#?
- (vi) Define Constructor.
- (vii) Which of the following modifiers is used when an abstract method is redefined by a derived class?
a) Overloads b) Override c) Base d) virtual

Q - 2 (a) Draw neat and clean diagram of .Net Framework. Explain its important components. [05]

Q - 2 (b) Write a short note on namespaces. [05]

OR

Q - 2 (a) What is .NET assembly? Explain in brief. [05]

Q - 2 (b) Discuss C# Reflection API using an example. [05]

Q - 3 (a) What is Inheritance? Explain it in brief with suitable example. [05]

Q - 3 (b) Differentiate Array and Array List in .Net with example in C# .Net. Explain various methods of Array List. [05]

OR

Q - 3 (a) Explain function overloading with example. [05]

Q - 3 (b) What is dll hell problem? Discuss the solution of dll hell problem in .NET. [05]

Q - 4 Attempt any one. [05]

(i) What is Indexer? Write a code snippet showing use of indexer.

(ii) Demonstrate the use of SortedList with an example.

SECTION - II

Q - 1 Answer the Following: (Any five) [05]

- (i) What is ASP.Net?
- (ii) What is session management?
- (iii) Define MDI.
- (iv) What is ADO.NET?
- (v) What are events?
- (vi) What is postback in ASP.NET?

- (vii) Enlist validation controls in ASP.NET.
- Q - 2 (a) Explain ASP.NET Page life cycle with diagram. [05]
- Q - 2 (b) Explain any 4 windows controls in detail. [05]

OR

- Q - 2 (a) Explain validation controls in detail. [05]
- Q - 2 (b) What is ADO.NET? [05]
- Q - 3 (a) What is viewstate? explain with an example. [05]
- Q - 3 (b) Write a windows form program to display "your name and college name" in message box when you click on a button. [05]

OR

- Q - 3 (a) Explain AdRotator control in detail. [05]
- Q - 3 (b) Explain Session management with an example. [05]
- Q - 4 Attempt any one. [05]
- (i) Login control.
- (ii) DataGridView.
