

21 MAR 2022

SVKM'S
Mithibai College of Arts, Chauhan Institute of Science &
Amrutben Jivanlal College of Commerce and Economics (Autonomous)
Academic Year (2021-22)
Class:S.Y.B.Sc. Semester:IV

Program: Bachelor of Science
Subject: Computer Science
Course Code : USMACS406
Course Name : .NET Technologies
Date: _____

Max. Marks: 50
Time: 7:30 am to 9:15 am

Duration: 1 hr 45 minutes

REGULAR EXAMINATION

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

- 1) This question paper contains 2 pages.
- 2) All Questions are compulsory.
- 3) Answer to each new question to be started on a fresh page.
- 4) Figures in brackets on the right hand side indicate full marks.

Q.1 Attempt any TWO Questions (14)

- A How does language compilation take place in .NET Framework ? (7)
Explain it with a diagram
- B Write the list of datetime related functions available in C# along with (7)
syntax and coding example
- C Discuss different class accessibility options available in C#. Create a (7)
class and a constructor for the class. Create an object for the class.

Q.2 Attempt any TWO Questions (14)

- A Write a note on the following properties with possible values of Web (7)
Controls.
a. EnableViewState b. Page c. TabIndex d. AccessKey
e. Parent f. BorderStyle (with possible values)
- B Write a note on the role of Cross-Page posting and Query String in (7)
state management with appropriate coding examples

- C Create a Textbox which accepts an input from the user. Discuss all the possible validators that can be used with that textbox for various data types. Mention the properties of validation controls that should be changed for each validation. (7)

Q.3 Attempt any TWO Questions (14)

- A Write code snippets to create Connection object, DataReader object and insert a new record in a sample table. Assume the table details (7)
- B Write c# functions to create and retrieve an XML file given below using ASP.NET (7)

```
<clients>
<client location='CA'>
<supervisor> chromatic</supervisor>
<staffcount> 1 </staffcount>
</client>
</clients>
```

- C What is Simple Data Binding ? Write a code snippet to populate a CheckBoxList using class objects and array_list (7)

Q.4 Attempt any FOUR Questions (08)

- A Write the syntax and example C# statements to declare 1D and 2D arrays (Numeric and Strings) (2)
- B What is Client-Side Validation and Server-Side Validation ? Give a Scenario to explain these two concepts. (2)
- C Give at least 4 rich data controls. (2)
- D Write about at least 4 wild card characters that can be used in validator controls for regular expression (2)
- E List the Properties of Connection String. (2)
- F Write a C# code for creating a base class and a derived class in C# (2)
