

15 MAR 2023

SVKM'S
Mithibai College of Arts, Chauhan Institute of Science &
Amrutben Jivanlal College of Commerce and Economics (Autonomous)
Academic Year (2022-23)

Class: S.Y.B.Sc. Semester: IV

Program: B.Sc. Computer Science

Course Name: .NET Technologies

Course Code: USMACS406

Date:

Max. Marks: 75

Time:

Duration: 2 hrs 30 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.
- 5) Assume Suitable data if necessary

Q-1 Attempt any THREE Questions : (21)

- a) How does Common Language Runtime impact .NET Framework ? (7)
- b) Draw the diagram to depict when a page is requested and rendered and explain the steps. Also write about Page directive code. (7)
- c) Discuss different class accessibility options available in C#. Create a class and a constructor for the class. Create an object for the class. (7)
- d) Explain passing parameter by value and by reference in functions with the help of a coding example in C#. (7)

Q-2 Attempt any THREE Questions : (21)

- a) How is information passed through query strings ? Explain with the help of a coding example. Also write about URL encoding. (7)
- b) Give at least 7 types of errors made by the user during data entry. Suggest ways to avoid them. (7)
- c) What is AdRotator Control ? Write the XML file which is created for the AdRotator Control. (7)
- d) List at least 7 web control classes with their equivalent HTML elements. Also write the functionality of every control. (7)

Q-3 Attempt any THREE Questions : (21)

- a) Draw the ADO.NET architecture diagram and explain about the two ways of accessing the data from back end. (7)
- b) Write functions to insert a record and retrieve the contents of a SQL table using disconnected architecture (7)
- c) What is Single-value Data binding ? Incorporate Single-value data binding and display different types of information on the web page. Also write the problems in single-value data binding (7)
- d) Assume an XML file which stores information about students. Create that file using XMLTextWriter and related classes. (XML Tree should have a depth of at least 4). (7)

Q-4 Attempt any THREE Questions : (12)

- a) Write a note on .NET languages and Intermediate Language (4)
- b) List any 4 derived classes of HtmlInputControl class. (4)
- c) Write down the steps to query information from a table with simple data access. (4)
- d) Write at least 4 generic properties of a web control (4)