B3.5-R4: VISUAL PROGRAMMING

NOTE:

> 1. **Answer question 1 and any FOUR from questions 2 to 7.**
> 2. **Parts of the same question should be answered together and in the same sequence.**

Time: 3 Hours   **Total Marks: 100**

1.

a) What is the difference between CLR, CLS And CTS?

b) What is Finalizer? Explain how to implement it?

c) What are the various File mode options in Visual Basic? Write a short code for writing data in the file?

d) Give the name of different edition of Visual studio version from 2008 to 2015?

e) What are the benefits of ADO.NET?

f) What is Impersonation? How machine.config is different from web.config?

g) What is Garbage Collection? Can we forcefully do the Garbage collection in .Net?

                                                           (7x4)

2.

a) What is Boxing and Unboxing? Explain with an example.

b) What is the sequence in which ASP.NET events are processed? In which event are the controls fully loaded?

c) Write a code to design menu with File, Edit and View option in Windows form. Also add submenu Open and Close to File Menu.

                                                           (6+6+6)

3.

a) What are the Session-state Modes in ASP.NET? Explain them?

b) Explain the different types of ASP.NET controls.

c) Explain ADO.Net Architecture with a diagram.

                                                           (6+6+6)

4.

a) What are typed Dataset and untyped dataset?

b) How do you perform Method Overloading in ASP.NET?

c) What is the difference between Dispose and finalize in C#? Describe how and when to use the methods (Dispose and Finalize).

                                                           (6+6+6)

5.

a) Create an application to accept a username and password through start-up screen. The application should check whether the login name is "user1" and password is "pass1". The user should be provided with three login attempts. After three unsuccessful login attempts, the application should display an error message and close the screen.

b) Create an event using constructor?

c) What is AJAX? Give the advantages of AJAX?

d) What is a console application and when it is used?

                                                           (6+4+4+4)

6.

a)   What is a cookie? What are the limitations of cookie? Define Permanent Cookie.

b)   Explain try/catch/finally block of exception handling with an example. Why is exception handling important for an application?

c)   How to add a repeater Web Server control to a Web forms Page?

(6+6+6)

7.

a)   What is a Master Page? Explain with an example. Can Master Page be nested?

b)   What is Visual Inheritance? Explain with an example?

c)   Explain the following terms:
   i)   Delegate
   ii)   Namespaces
   iii)   GDI+

(6+6+6)