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Reg. No. ☐☐☐☐☐☐☐☐

IV Semester B.C.A. Degree Examination, September/October - 2022

COMPUTER SCIENCE

VB.NET PROGRAMMING

(CBCS Scheme)

Paper : BCA 403T

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

Answer **all** sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks.   (10×2=20)

1. Mention the types of applications that can be developed using. Net frame work.

2. Define CLS and JIT compiler.

3. Mention any two collection classes and their usage.

4. Write any two methods of list class with syntax and example.

5. Write the difference between static array and dynamic array in VB. Net.

6. Write the difference between functions and procedures in VB.Net. Write an example for each.

7. What is the usage of message Box and Input Box in VB. Net.

8. What is the use of stream reader, stream writer and file stream.

9. Write the functionality of any two LINQ operators.

10. List any two navigation controls in As P.Net.

11. What is the use of themes and skins in ASP. Net.

12. What is XML? Write the difference between XML and HTML.

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SECTION - B

II. **Answer any Five questions. Each question carries 10 marks.** (5×10=50)

1. a) Explain the architecture of .net framework with a neat diagram. (6)

   b) What are the features of VB. Net. Explain. (4)

2. a) Explain various components of visual studio IDE. (5)

   b) Write the syntax of select ..... case in VB.Net. Write a console based application to illustrate the usage of select... Case in VB.Net. (5)

3. a) Explain properties, methods and events of any two form controls in detail.(6)

   b) Explain methods for handling exceptions in VB.Net. Design a VB.Net window based application and write code to handle exception. (4)

4. a) What is MDI? Mention the difference between SDI and MDI. Design a VB. Net application having MDI and child forms and write code. (5)

   b) Explain any five mathematical and five string functions available in VB. Net.(5)

5. a) Discuss the concept of dynamic array in VB.Net. How to create dynamic array in VB.Net and also explain Redim and Preserve keyword in detail. (4)

   b) Explain ADD. NET object model and the steps for database connections using ADO.Net. Design and write code in VB.Net to create a login page.(6)

6. a) Design and write code for building a web application to read student name, register no and marks. (5)

   b) Define validation. Discuss properties and methods of validation controls in Asp. Net. (5)

7. a) Explain the steps for creating master pages in ASP.Net. (5)

   b) Write a note on crystal reports. (5)

8. a) Define LINQ. Briefly explain LINQ to objects in ASp.Net. (5)

   b) What is a stored procedure? Explain with an example. (5)