

Register No:

Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SIXTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION(R,S), MAY 2024
(2020 SCHEME)****Course Code : 20IMCAT306****Course Name : Visual Programming****Max. Marks : 60****Duration:3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. What is an exception ? Explain all blocks necessary to handle exception.
2. Explain the need of .NET framework for software development.
3. Write a code snippet to declare and initialize a variable of Boolean data type in VB.Net.
4. What is the scope of a variable defined within a procedure in VB.Net?
5. What are the advantages of using dynamic arrays over static arrays?
6. Explain the use of named arguments in VB.Net.
7. Differentiate link label and label.
8. Write the use of a picture box and a timer control.
9. Summarize the various features of ADO.Net.
10. Which namespaces are required to enable the use of databases in ADO.Net?

PART B*(Answer one full question from each module, each question carries 6 marks)***MODULE I**

11. How do you write a program based on console application using .NET. 6

OR

12. Discuss the concept of class libraries in .Net. How do class libraries contribute to code reusability in application development? 6

MODULE II

13. Elaborate the different access specifiers in VB.Net with an example. 6

OR

14. a) Write a program to find the area of a circle using constant variables in VB.Net. 3
b) Explain the concept of identifiers in VB.Net and provide an example. 3

MODULE III

15. Design a VB.Net program that utilizes both sub procedures and function procedures to convert temperature from celsius to fahrenheit. 6

OR

16. Create a VB.Net program to display a menu with options for addition, subtraction, multiplication and division. Based on user input, perform the selected operation using a decision-making structure. 6

MODULE IV

17. Write the code for the following: 6
- a) Setting titlebar text to the form
 - b) Enabling and disabling the form
 - c) Showing and hiding controls in code.

OR

18. Design a VB.NET program that allows users to select their preferred mode of transportation using radio buttons. There are three options: "Car", "Bus", and "Train". When the "Train" option is selected, an additional group of radio buttons should appear, allowing users to select a train type: "Express" or "Local". If the "Local" option is chosen, the selection should be displayed in a message box. If the "Express" option is chosen, the submit button should be disabled. 6

MODULE V

19. Describe the generic procedure of creating a menu in a VB.Net application. 6

OR

20. Explain the process of connecting to a database using ADO.Net in VB.Net. 6
