

# **VIJAYA COLLEGE**

**R.V. Road, Basavanagudi, Bengaluru-04.**

**IV Semester B.C.A Examination**

**(CBCS) (2015-16 and Onwards )**

**COMPUTER SCIENCE**

**BCA 403T: Visual Programming**

**Model Paper - 1**

**Time: 3Hours**

**Max.Marks:70**

**Instructions: Answer all the sections**

## **SECTION-A**

**I Answer any ten Questions**

**(10 x 2 =20)**

1. What is Visual Programming?
2. What are Intrinsic controls? Name any two controls.
3. Explain the different status of a form object.
4. What are the differences between explicit and implicit variable declarations?
5. Explain different focus events in Visual Basic.
6. Explain any two EXIT statements with an example.
7. What do you mean by Context-Sensitive Help? Explain.
8. Differentiate between ADO and DAO.
9. Mention different components of VC++.
10. What is an icon? How do you create an icon in VC++.
11. Explain OLE object.
12. What is an exception? Explain.

## SECTION-B

**II Answer any five questions.**

(5 x 10 = 50)

- 13.a) Explain any five important features of Visual Basic.  
b) Explain the usage of Check Box and Image Box controls with an example. **(5+ 5)**
- 14.a) What are control arrays ? Explain the creation of controls arrays at design time  
With an example.  
b) Give the syntax of Message Box function in Visual Basic. Explain with an  
example. **(5+ 5)**
- 15.a) Explain the different data types available in Visual Basic.  
b) What are general procedure and Event procedure ? Explain with an example. **(5+ 5)**
- 16.a) Explain the different entry-controlled looping statements in Visual Basic with an  
Example.  
b) What are static and dynamic arrays? Explain with an example. **(5+ 5)**
- 17.a) What is windows API? Explain the different functionalities provided by  
Windows API.  
b) What is a File System Objects? Explain the different properties and methods of  
text Stream. **(5+ 5)**
- 18.a) Write a note on ADO Object model.  
b) Design a user interface and write a program to accept student details such as name,  
department and total marks. Validate the Input data and calculate the percentage and  
division. **(5+ 5)**
- 19.a) Differentiate between Document /View Architecture and Dialog-based  
Architecture.  
b) Write a note on MFC file handling. **(5+ 5)**
- 20.a) Explain Static and Dynamic splitter windows.  
b) Explain multiple catch handlers in VC++ with an example. **(5+ 5)**

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**BCA 403T: Visual Programming**

**Model Paper - 2**

**Time: 3Hours**

**Max.Marks:70**

**Instructions: Answer all the sections**

## **SECTION-A**

**I Answer any ten Questions**

**(10 x 2 =20)**

- 1.What is an IDE in Visual Basic.
2. Explain any two methods related to form Object.
- 3.What are the advantages of control arrays?
4. What is a variant data type ?
5. Explain any four types of End statements in Visual Basic.
- 6.What is a module ? Mention the different types of modules.
7. List the access modes of opening a Visual Basic file.
8. What are data-aware controls? Explain.
9. What are the differences between List box and list controls in VC++.
10. Explain any two features of MFC Libraries.
11. Write any two functionalities provided by DLLs.
12. How do you through an exception in a try block ? Give an example.

**SECTION-B**

**II Answer any five questions.**

(5 x 10 = 50)

13. a) Explain any five important features of Visual Basic.

b) Explain the usage of list box and check box controls with an example. (5+ 5)

14.a) What is an MDI form ? Explain with an example.

b) Explain the important Microsoft common controls. (5+ 5)

15.a) Explain select case statement in Visual Basic with a suitable programming example.

b) Explain the different entry-controlled Looping statements in Visual Basic with an example. (5+ 5)

16.a) Explain the steps to create general procedure for a form and module with an example.

b) What is a Module? Explain the different types of modules. (5+ 5)

17.a) Write a note on windows API viewer.

b) Explain the different types of help files.(5+ 5)

18.a) What is record set ? Explain the different Record set object methods with an example.

b) Design and write a visual basic program to validate the user name and password from the database and display the appropriate message(Use ADO Data Control)  
(5+ 5)

19.a) What are the different classes in a Document / View Architecture ? Explain.

b) Write a basic MFC Program to create a simple window. (5+ 5)

20.a) Explain the important benefits of OLE.

b) Write a note on static and dynamic splitter windows. (5+ 5)

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**BCA 403T: Visual Programming**

**Model Paper - 3**

**Time: 3Hours**

**Max.Marks:70**

**Instructions: Answer all the sections**

## **SECTION-A**

**I Answer any ten Questions**

**(10 x 2 =20)**

1. What is a Visual Basic Event? What are mouse events?
2. What are the logic operators in VB?
3. Explain any two common properties of VB controls.
4. Explain dynamic array with syntax.
5. What is function procedure?
6. Explain Date Time Picker control in VB.
7. What is MDI form? Explain.
8. Write a note on checkbox control.
9. What is ODBC? Explain.
10. What are Help files?
11. What is MFC? Explain.
12. What are DLLS? Explain.

**SECTION-B**

**II Answer any five questions.**

**(5 x 10 = 50)**

- 13.a) Explain different Do Looping used in VB with syntax.  
b) Explain any five string operations in VB. **(5+ 5)**
- 14.a) Explain combobox control and how to add items to combobox during design time and run time.  
b) Write notes on Drive Listbox, Directory Listbox and File Listbox. **(5+ 5)**
- 15.a) What are modules? Explain different types of Modules.  
b) Explain common dialog control with suitable example. **(5+ 5)**
- 16.a) Write notes on Windows API viewer.  
b) Explain data abstraction and encapsulation in VB. **(5+ 5)**
- 17.a) Write note on file handling.  
b) Explain DAO(Data Access Objects) **(5+ 5)**
- 18.a) Write note on ADO Object model.  
b) What is ADODC? What are the features of ADODC? **(5+ 5)**
- 19.a) Explain menu and how to create menu in VC++.  
b) Explain splitter windows. **(5+ 5)**
- 20.a) Design a VB application for login page. Validate the user name and password in Programming part.  
b) Write a VC++ program to create a Dialog Box and Display the message. **(5+ 5)**