

VIR NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
T.Y.B.COM.
COMPUTER APPLICATION (VOCATIONAL)

PAPER-IV GUI Tool

With Effect From : 2005-06

[1] VISUAL BASIC:

1. VISUAL BASIC OVERVIEW

[5%]

What Is Visual Basic - Visual Basic Specification, Limitation And File Formats.

Introduction To Visual Basic IDE Element - Screen Of Visual Basic - Title Bar, Menu Bar, Context Menu, Tool Bar, Tool Box, Project Window, Properties Window, Form Layout Window, Form Designer Window.

What Is Object Oriented Programming(OOP)-Deine Encapsulation, Polymorphism And Inheritance.

2. CUSTOMOSING A FORM AND WRITING SIMPLE PROGRAM: [5%]

Creating, Opening, And Saving Projects - Working With Multiple Project - Adding, Removing And Saving Files - Setting Project Option - Creating Stand - Alone Executable Window Programs - Understanding Properties, Methods And Events - Designing A Form - Setting The Startup Form - Steps In Creating Visual Basic Application - Ending A Visual Basic Application.

Common Form Properties (Caption, Name, Appearance, BorderStyle, ControlBox, MaxButton, MinButton, Font, Height, Width, Left, Top, MousePointer, ShowInTaskbar, StartupPosition, Enabled, Visible, WindowState, BackColor, ForeColor, ScaleMode).

Common Form Method (Load, Unload, Show, Hide, Move, Cls, Print, Set Focus). Common Form Event (Activate, DeActivate, Load, UnLoad, Initialize, Resize, QueryUnload, Terminate, Click, DblClick, GotFocus, LostFocus, KeyDown, KeyPress, KeyUp, MouseDown, MouseMove, MouseUp).

3. PROGRAMMING FUNDAMENTAL :

[15%]

What is Variables - Storing and Retrieving Data in Variable - Explicit Declarations and Implicit Declaration - Scope of Variables - Static Variable - Types of Variables - Numeric, String, Variant, Date and Object.

What is Constant - Type of Constant - Creating Your Own Constant - Scoping User Defined Constant.

Using Operator In Visual Basic - Arithmetic, Relational, Logical, Assignment and Comparison Operator.

Control Flow Statements - If ...Then...Else...End If Statement,Select Case

Statement, For...Next Statement,Do...Loop Statement,While...Wend Statement,

Nested Control Structures,The Exit Statement.

Introduction to Arrays - Multidimensional Arrays - Dynamic Arrays.

Introduction to Procedures and Functions - Calling Subroutines - Calling Functions -

Argument - Argument Passing Mechanisms - Passing Argument by Reference - Passing Argument by Value - Passing Unknown Number of Argument.

2. VISUAL BASIC BUILT-IN-FUNCTION : **[10%]**

String Functions - ASC, CHR, LCASE, UCASE, INSTR, STRCOMP, LEFT, RIGHT, MID, LEN, LTRIM, RTRIM, TRIM, SPACE, STRING, FROMAT.

Numeric Functions - ABS, EXP, INT, FIX, LOG, Hex, OCT, RND, SGN, SQR, VAL.

Date and Time Functions - TIMER, DATE, TIME, NOW, DAY, WEEKDAY, MONTH, YEAR, HOUR, MINUTE, SECOND, DATESERIAL, TIMESERIAL, DATEADD, DATEDIFF.

Variable Type Functions – VARTYPE, LBOUND, UBOUND, ISARRAY, ISDATE, ISEMPTY, ISNULL, ISNUMERIC.

Financial Functions – IPMT, PPMT, PMT, FV, NPER, RATE.

Miscellaneous Functions – IIF, SWITCH.

5. DEFAULT VISUAL BASIC CONTROL: **[5%]**

Adding Controls To The Form – Resizing, Moving And Locking Controls – Setting Properties Of The Control.

Using Text Boxes, Command Buttons, Labels, Option Buttons, Check Boxes, List Boxes, Combo Boxes, Image Control, Picture Boxes, Scroll Bars, Drive List Boxes, Directory List Boxes, File List Boxes, Frame Controls, Timer Controls.

(Commonly Used Properties,Event And Methods Of All The Control To Be Taught)

Understanding The Concept Of Control Array.

6. MENUS, MDI & DIALOG BOX [5%]

Menu Basics – Introduction To Menu Editor – Caption Text Box, Name Text Box,Ok And Cancel Buttons, Index Box, Shortcut Box, WindowList Check Box, Checked Check Box, Enabled Check Box, Visible Check Box, Arrow Button, Next Buttons, Insert Button, Delete Button – Menu Naming Convention, Creating Submenu, Working With Menu at Run Time – Using Access Keys And Shortcut Keys- Creating Popup Menus.

MDI Basics- Creating An MDI Application, Working With MDI Form And Child Form, Loading And Unloading Forms.

What Is Dialog Box – Modal And Modless Dialog Box – Inputbox Function – MsgBox Function – Common Dialog Box Control.

7. VISUAL BASIC AND DATABASES: [5%]

What Is ActiveX Control – Loading Activex Control – ADO Data Control.

Using ADO Data Control – Setting The Connection String And Recordsource Properties – Working With Cursor Types-Working With Properties Like BOF Action, EOF Action,Lock Type, Binding Control (Textbox Control) To The ADODC – Setting Datasource And Datafield Properties – Adding And Deleting Records With The ADODC And Finding Specific Records.

Using ActiveX Data Object – Understating The ActiveX Data Objects – Creating A Recordset With Code – Displaying The Data From A Recordset – Moving Through The Recordset – Adding, Editing And Deleting Records In A Recordset.

[2] ACCESS

2.1 CREATING AND WORKING WITH DATABASES: [5%]

What Is Database – Creating A Database.

2.2 INTRODUCTION TO DATABASE OBJECTS:

[5%]

Tables – Queries – Forms – Reports.

2.3 CREATING AND WORKING WITH TABLES

[40%]

Creating Table – Adding Fields To Table – Choosing Data Types – Controlling The Data Entered In The Field, Defining Values And Defining Validation Rules – Creating Primary Key – Creating An Index – Defining Relationship Between Two Or More Tables And Setting Referential Integrity.

Working With Datasheets – Inserting And Deleting Rows – Manipulation Of Records.

Working With Sql Queries – Creating And Modifying Queries – Using Multiple Tables In Queries – Using Criteria And Statement To Retrieve Data – Performing Calculation – Creating Select Queries – Creating Action Queries (Make – Table, Delete, Update, Append Queries) – Union – Data Defination – Subquery.

Reference Book For Paper V:

1. Mastering Visual Basic 6.0 - Dulaney
(Tata Mcgraw-Hill Publication)
2. Learn To Program With Vb 6 - John Smiley
(Microsoft Press)
3. Begining Visual Basic - Peter Wright's
(Shroff Publishers & Distributers Pvt.Ltd)
4. Paul Sherif Teaches Vb6 - (Phi)
5. Visual Basic 6 Programming Black Book
- Steven Holzner
6. Teach Yourself Access 97 In 24 Hours
- Timothy Buchanan Craig Eddy,
Rob Newman
(Techmedia)
7. Successful Projects In Access
- P.M. Heathcote
(Bpb Publication)

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COMPUTER APPLICATION (VOCATIONAL)

PAPER-V Entrepreneurship & Entrepreneur

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[A] [50%]

Entrepreneurship & Entrepreneur

Defination – Process – Entp. & Eco. Development – Aspects of
Entrepreneurship – Characteristics of Entrepreneurship – Qualities Skills –
Theories of Ent. – Classification and type of Entrepreneurs, Entrepreneurial trail
& motivation growth of Entrepreneurs
Nature and importance of Entrepreneurs.
Ent. Development – Environment and barriers of Ent.- Process of
E.D.Programme misconception about EDP – Objectives of EDP – Issues of
EDPS – Strategy of E.D. –E.D.Training, EDP Organizations.

ReferenceBooks –

Dynamics of Entrepreneurial Development and management – Vasant
Desai(HIMALAYA)

[B] [50%]

Project Report