**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**SHORT ANSWER TEST – MODEL**

Sub.Code & Name: MC9243 Visual Programming Date :

Year & Sem : II/IV Time :

Staff Name : Mr. S.Selvaganapathy Max. Marks : 60

**Answer all the Questions (30 x 2 =60)**

1. How do you name variables in windows programming?

The windows program allows a variable naming convention called Hungarian Notation. All the variable begin with lower case letters which denotes the type of the variable. Ex: The Sz prefix SzCmdline represents “String terminated by zero.

1. What you mean by calling convention?

The calling convention is a certain order in which arguments are to be passed to function in a function call. The VC++ supports various convention such as \_cdecl, \_stdcall, thiscall, endcall etc.

1. Define device context.

Device context (DC) is a data structure defined internally by GDI. It is associated with display device such as video display or printer. For video display, the device context is associated with the particular windows on display. The values present in DC are “graphics attributes” and it defines how GDI functions work.

1. Give the techniques used to implement Event-Driven Programming.

The two techniques are (i) Polling - KEY commands (ii) Stop and wait – this technique stop the computers and waits for something happen in the computer.

1. What are the three main categories of messages?

(i) Window messages (ii) Control notification (iii) Command messages

1. What you mean by virtual key code.

The virtual keycode is a WParam parameter of the WM\_KEYDOWN , WM\_KEYUP, WM\_SYSKEYUP and WM\_SYSKEYDOWN messages. This code identifies what key is being press or released. Ex: VK\_LBUTTON.

1. Define control arrays.

A control array is a group of controls that share same name and type. Control Array is created during design time.

1. How do you declare variables in VB?

The variables in VB can be declared in VB in three ways (i) Explicit declaration (ii) using option explicit statement (iii) scope of variables. Dim statement is used to declare variables in visual baic.

1. Write the use of variant data type.

The data type declared as variant can hold any type of data. There are two types of variants (i) variant (number) consists of 16 bytes of memory and store any numeric values utpo double data type. (ii) variant(character) consists of 22 bytes plus string length and same as variable length string.

1. What is grid control?

A grid control is table of rows and columns for displaying text, numeric values and even graphics.

1. Give the common dialog box controls in VB.

FileOpen, FileSave, Print, Font and Color.

1. What is bound control?

Bound control is otherwise called as Data aware control. Bound control automatically store and retrieve items through data.

1. What do you mean by message map?

Message Map associates Window handle and Window message. It is the heart of windows event driven programming model.

1. Name some GDI Derived classes.

CClientDC, CPaintDC, CWindowDC, CMetafileDC.

1. What is serialization process?

The process of storing and retrieving data is called serialization process. An object can persistent even after the application is closed and can be restored when the program is restarted.

1. What you mean by Document-View Architecture?

This document-view architecture is the core of two classes that represent the "document" and the "view." The document-view architecture separates data from the user's view of the data.

1. List out the four classes created when using MFC wizard? Give the use of each class.

CClientDC - Takes care of calling the Windows functions GetDC at construction time and ReleaseDC at destruction time.

CPaintDC - A CPaintDC object can only be used when responding to a WM\_PAINT message, usually in your OnPaint message-handler member function.

CWindowDC - Calls the Windows functions GetWindowDC at construction time and ReleaseDC at destruction time. This means that a CWindowDC object accesses the entire screen area of a CWnd (both client and nonclient areas).

CMetafileDC - Creates a device context for an enhanced-format metafile.

1. Define Bitmaps and give its types.

A Bitmap is an array of bits that are mapped to display pixels. Two types of Bitmaps are (i) Device Dependent bitmap (GDI) (ii) Device independent bitmap (DIBs).

1. List out the operations involved in animate control.

CAnimatectrl::Open, CAnimatectrl::Play, CAnimatectrl::Stop, CAnimatectrl::IsPlaying, CAnimatectrl::Close,CAnimatectrl::Seek

1. What is an image list?

An image list contains an array of bitmaps of the same size. The pictures are created as a series of icons, a single bitmap, or a group of bitmaps. Each icon or bitmap can be located using its index.

1. What is the use of CRectTracker?

CRectTracker is used to interact with OLE Item. It allows an item to be displayed, moved, and resized in different fashions.

1. How do you apply styles to a tree view control?

The following styles can be applied to a tree view control by modifying PreCreateWindow function

 TVS\_HASLINES adds connecting lines between parent and child items.

 TVS\_LINESATROOT adds lines for the root items in the tree control. This attribute is ignored if TVS\_HASLINES is not selected.

 TVS\_HASBUTTONS adds the plus and minus buttons for items that can be expanded.

 TVS\_EDITLABELS enables the user to edit a tree view item label.

ex:

BOOL CTreeExView::PreCreateWindow(CREATESTRUCT& cs)

{

cs.style |= ( TVS\_HASLINES|TVS\_LINESATROOT|TVS\_HASBUTTONS );

return CTreeView::PreCreateWindow(cs);

}

1. Write the use of tab control.

A "tab control" is analogous to the dividers in a notebook or the labeled folders in a file cabinet. Use the tab control, represented by class CTabCtrl, to show multiple pages of information or controls to a user, one at a time, in a format that suggests a peer or logical relationship between each page.

1. What is CRichEditView?

CRichEditView supports mixed and large quantities of text. The CRichEditView maintains text and formatting characteristic of text.

1. Define Sockets and give its types.

Socket is an abstract representation of communication endpoint. Two types of sockets are (i) Stream Sockets

(Specifies TCP) (ii) Data Sockets (Specifies UDP)

1. What you mean by Hypermedia?

**Hypermedia** is used as a logical extension of the term hypertext in which graphics, audio, video, plain text and hyperlinks intertwine to create a generally non-linear medium of information.

1. What are the MFC classes available for ODBC databases?

CDatabase, CRecordset, CRecordview

1. What is a custom control?

Custom controls are controls created by user by using the ordinary controls such as edit control. It sends WM\_COMMAND message.

1. Write the use of container class.

Container class contains class contains other items. It is used to embed the OLE objects.

1. What are ActiveX controls?

ActiveX is a framework that define a reusable software components in Programming language. It is a mini program building block. It serve to create and distribute application over internet through web browser.