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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_

**End Semester Examination – Nov/Dec - 2016**

**Subject Code: 09CS216 Time : 3 hour**

**Subject Title : Visual Programming Maximum Marks: 100**

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| Q. No | **ANSWER ALL QUESTIONS**  **PART – A (10 x 1 = 10 MARKS)** | | Marks Allotted |
| 1 | Expand MSIL | | 1 |
| 2 | User actions on the window are considered by Windows Operating System as\_\_\_\_\_\_\_\_\_\_\_\_. | | 1 |
| 3 | A rectangular box gives the description of a toolbar tool when the cursor placed on the tool is called \_\_\_\_\_\_\_\_\_\_\_\_\_. | | 1 |
| 4 | What mapping mode should be used to draw a circle which retains the circular shape even if the window is expanded by increasing the X axis? | | 1 |
| 5 | Name a collection template class which uses hashing as its access technique. | | 1 |
| 6 | The type of dialog that does not allow you to work anywhere in the window until it is closed is called \_\_\_\_\_\_\_\_\_\_\_. | | 1 |
| 7 | What is serialization? | | 1 |
| 8 | Give any two reasons to call DllMain() function. | | 1 |
| 9 | Expand DBQ. | | 1 |
| 10 | State the MFC classes supported by ODBC. | | 1 |
| **PART – B (5 x 3 = 15 MARKS)** | | | |
| 11 | Give the structure of the Windows program. | | 3 |
| 12 | Differentiate modal and modeless dialogs. | | 3 |
| 13 | How the buddy of a spin button control can be selected? | | 3 |
| 14 | Distinguish between Regular and Extension DLL. | | 3 |
| 15 | Compare and contrast DAO and ODBC. | | 3 |
|  |  | |
| **PART – C (5 x 15 = 75 MARKS)** | | | |
| 16 |  | Write and explain the Windows program to display a window with Hello message at the center of the client area. | 15 |
| (OR) | | | |
| 17 |  | Explain in detail the various components of Visual C++ Integrated Development Environment. | 15 |
| 18 | a. | Create and explain an MFC application to display the ‘\*’ symbol in the window wherever the right mouse button is clicked. | 5 |
| b | Discuss Document View architecture. | 5 |
| c | What are the functions of message map()? | 5 |
| (OR) | | | |
| 19 | a | Write and explain a VC++ application with a user defined toolbar which includes tools to draw line, circle, and square shapes in windows client area. | 10 |
| b | Write short notes on GDI. | 5 |
| 20 |  | Create and explain a modal dialog based scientific calculator application in VC++ with the following requirements: One edit control accepts the input values from the user and displays the output values to the user. Buttons for digits 0 -9, operators +,-,\*,/,%, x2,sqrt and =. The calculator displays all the inputs, operators, intermediate and final outputs in a separate edit control. | 15 |
| (OR) | | | |
| 21 |  | Discuss the various collection classes and their member functions with suitable examples. | 15 |
| 22 | a | Write a VC++ program and necessary steps to create Dynamic Link library with the functions to find the area and volume of a box and to demonstrate the same using a client application. | 12 |
| b | Define the DllMain() function | 3 |
| (OR) | | | |
| 23 |  | Explain serialization with suitable programs. | 15 |
| 24 | a | Write and explain a payroll management system in VC++ using ODBC database connectivity. | 10 |
| b | Discuss the CDatabase transaction operations in detail. | 5 |
| (OR) | | | |
| 25 |  | Write and explain a book store management system in VC++ using ODBC database connectivity. | 15 |