

- (b) Discuss the MFC classes used for ODBC database programming. How these classes are used for connectivity ?
9. How database application can build and managed using ODBC.
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Roll No.

67243

**MCA 5th Semester Current Scheme
(With New Notes)**

Examination – November, 2017

WINDOWS PROGRAMMING & VISUAL C++

Paper : MCA-503

Time : Three Hours] [Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Compulsory Question

- (a) Differentiate DrawText() and TextOut() with example.
- (b) Why always menus are not created with the help of resource editor ?
- (c) What are console applications and why these are used ?

- (d) Differentiate bitmap and Metafile. Also name the functions associated with metafiles.
- (e) How CView() and CDocument() are related with each other ?
- (f) "Application wizard eliminates redundancy". Justify the statement.
- (g) Differentiate between view and snapshot.
- (h) Name the MFC classes used for ODBC connectivity.

UNIT – I

- 2. (a) What is buddy control ? How a buddy control is associated with spin control. Discuss with code segment.
- (b) How the message map functions are used for interacting with the user input ? Discuss with a simple application.
- 3. (a) How text and fonts are managed in windows programming ? Describe with. example.
- (b) What is the purpose of using ' AutoCheckbox'. How it is different from simple checkbox. Discuss with code.

UNIT – II

- 4. (a) What is multithreading ? How a thread can be created, terminated and synchronized ?
- (b) What is MIDI ? Explain Sequencing and channeling of MIDI.
- 5. (a) How text can be transferred to and from the clipboard ?
- (b) Explain the concept of delayed rendering. Discuss different formats used for it.

UNIT – III

- 6. (a) What is cascaded menu ? Write a code segment using MFC to create cascaded menu.
- (b) Define serialization. How does VC++ support serialization ?
- 7. (a) Discuss different types of brushes and how these are created. Explain with example.
- (b) Explain document view architecture and framework classes with suitable example.

UNIT – IV

- 8. (a) Explain the concept of MFC programming without view document architecture.