

Roll No.

67213

**MCA 5th Semester (New) for full
subject candidates Examination-
December, 2013**

**WINDOWS PROGRAMMING AND VISUAL
C++**

Paper MCA-503

Time : 3 hours

Max. 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 the examination.

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT - I

1. (a) How can a spin control be added in a program ? Explain with coding.
- (b) Discuss message handling in MFC.

2. (a) How are text and fonts managed in Windows programming ? Describe with example.
- (b) What is the purpose of using 'Autocheckbox' ? How is it different from simple checkbox ? Discuss with code.

UNIT - II

3. (a) What is multithreading ? How can a thread be created, terminated and synchronized ?
- (b) Explain Sequencing and channeling of MIDI.
4. (a) What is Sound API ? How is waveform audio used in it ?
- (b) Explain the concept of delayed rendering.

UNIT - III

5. (a) What is another way of creating the menu except resource editor ? Explain with code segment.
- (b) What is Device Context ? Explain its different types.

6. (a) Discuss different types of brushes and how are these created. Explain with example.
- (b) Explain document view architecture using MFC.

UNIT - IV

7. (a) Explain the concept of MFC programming without view document architecture.
- (b) Differentiate DAO and ODBC.
8. How can database application build and managed using ODBC.
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