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**BT—10—2016**

**FACULTY OF COMPUTER STUDIES**

**M.Sc. (First Year) (Second Semester) EXAMINATION**

**OCTOBER/NOVEMBER, 2016**

**(CBCS Pattern)**

**SOFTWARE ENGINEERING**

**(Window Programming Using VC++)**

**(Saturday, 19-11-2016)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

*N.B. :— (i) All questions are compulsory.*

*(ii) Figures to the right indicate full marks.*

*(iii) Assume suitable data, if necessary.*

1. Attempt any *three* of the following : 3×5=15

- (a) Explain windows programming model.
- (b) What is Dialogs ? Explain model and modelless dialogs.
- (c) Write a note on Drawing with Pen and Brush.
- (d) What is message map ?

2. Answer the following (any *three*) : 3×5=15

- (a) Write a simple MFC Application to display string on center of window.
- (b) Explain CToolBar class with example.
- (c) Differentiate between CClientDC and CWindowDC class.
- (d) Explain Visual C++ project types.

3. Solve the following (any *three*) : 3×5=15

- (a) Write an MFC Application to draw a line on window using mouse.
- (b) Explain CButton & CEdit class with example.
- (c) Write a note on MFC collection classes.
- (d) What is DLL ? Explain the procedure for creating and using DLL.

P.T.O.

4. Answer the following (any *three*) : 3×5=15
- (a) Write the MFC Application for demonstration of Timer Message.
  - (b) Write a note on creating and using shortcut menu.
  - (c) Write a procedure for creating and using thread.
  - (d) What is Exception ? Explain Handling Exception with example.
5. Write short notes on (any *three*) : 3×5=15
- (a) COM
  - (b) MFC Database Support
  - (c) MFC support for printing
  - (d) CFileDialog class
  - (e) Benefits of MFC & C++.