## MVSE-105

## M. E/M. Tech. (First Semester) EXAMINATION, March, 2010

(Civil Engg. Branch)

(Specialization in Computer Aided Structural Design)

## COMPUTER AIDED DESIGN

(MVSE-105)

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 40

Note: Attempt any five questions. Each question carries equal marks.

- 1. (a) Describe the following data types with example:
  - (i) Integer
  - (ii) Float
  - (iii) Character
  - (iv) Structure
- (b) What is an array? How a matrix can be represented using array? Write a program to add two matrices.
- 2. (a) Describe the 'switch' and 'if-else' statement with example.
  - (b) Explain call-by value and call-by reference parameters with example of function call.

: P. T. O.

- 3. (a) Describe the following terms of OOP:
  - (i) Data encapsulation & NB
  - (ii) Polymorphism 5 (Arr)
  - (iii) Class and object
  - (b) What are various types of inheritance? Explain each with example of classes.
  - 4. (a) What are the constructor and destructor? Explain with example. How the constructor is overloaded?
    - (b) Write short notes on the following:
      - (i) Inline function
      - (ii) Pure virtual function
      - (iii) Abstract class
- 15. Write different draw commands in AutoCAD and explain any four of them briefly.
- Describe the following terms in AutoCAD:
  Zoom, Area, Dist, Offset, Trim, Mirror, Shift, Stretch,
  Undow, Erase.
- 7. Write short notes on the following:
  - (a) Function key.
  - (b) Dimensioning
  - (c) Layer
  - (d) 3D command