

Roll No.

MVSE-105

M. E. (First Semester) EXAMINATION,

Feb./March, 2009

(Structural Engineering)

COMPUTER AIDED DESIGN

(MVSE-105)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Write a program to compute and print area and perimeter of a triangle and a trapezium and volume of a sphere. 15
(b) Explain the role of computer aided design in civil engineering. 5
2. (a) Discuss in detail the engineering applications of computer graphics. 10
(b) Discuss the various input/output devices commonly used for Computer Aided Drafting. 10
3. (a) Discuss traditional drafting vs CAD. 10
(b) Discuss interface of AUTOCAD with other language.

4. (a) Write a loop that displays the numbers from 100 to 110. 10
(b) How many arguments are required in the definition of an overloaded unary operator ? 10
5. (a) Write statement that display on the screen : 10
(i) The character 'X'
(ii) The name Jim
(iii) The number 509
(b) Discuss the importance of C++ language. 10
6. (a) Design a program to read n different numbers and display the average of all the odd numbers. 10
(b) Discuss various phases of program execution : 10
(i) Preprocessing
(ii) Compilation
(iii) Linking and loading
(iv) Execution
7. (a) Design a function that returns the rounded integer of a float variable. 10
(b) Explain the different arithmetic and rotational operators used in C++ programming language. 10
8. Write short notes on any two of the following : 10 each
(a) Object oriented programming
(b) CAD software
(c) Inheritance
(d) Virtual functions and pointers

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