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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(SE) (Sem.-2)
COMPUTER AIDED DESIGN METHODS
Subject Code : CE-507
Paper ID : [E0854]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. Differentiate between micro and mini-computer. Discuss about graphic floater and graphic screen digitizer.
2. a) Describe the concepts of clipping and windowing.
b) Differentiate between Phong and Gouraud shading.
3. A cube is defined in three-dimensional space with edges one unit in length. The corners of the cube are located at (1,1,1), (1,1,2), (1,2,1), (1,2,2), (2,1,1), (2,1,2), (2,2,1), (2,2,2). Determine the locations of the corners if the cube is first translated by three units in the x-direction and then scaled by a factor of two.
4. Write short notes on :
a) Input functions
b) Graphic input technique
5. Discuss in brief the points you will consider for designing a graphic package. Discuss only one graphic package in detail.
6. Design an interactive computer program for the design detailing of a typical two-way R.C.C slab. Incorporate the various checks as per codal recommendations.
7. a) Differentiate between two tier architecture and three tier architecture in context with DBM.
b) What is Database Management? Discuss the various applications of database management.
8. Write short notes on :
a) Local stiffness Matrix
b) Segmentation geometric modeling.