

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

Ph.D Examination

COMPUTER AIDED DESIGN METHODS (CIVIL)

M.Code : 78006

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES:

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

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| Q1 | a) How Computer-aided design (CAD) is used for analysis and optimization of a design? | 10 |
| | b) Write the role of importance of memory in CAD. | 10 |
| Q2 | a) Explain line drawing display in computer graphics. | 10 |
| | b) Describe the use of translation, rotation and scaling in two dimensional transformations. | 10 |
| Q3 | a) What is hidden surface elimination algorithm? Write its uses. | 10 |
| | b) Explain what is MATLAB? Where MATLAB can be applicable? | 10 |
| Q4 | a) Discuss objectives of interactive acceleration analysis. | 10 |
| | b) Write applications of Graphic Packages in painting and drawing of structures. | 10 |
| Q5 | Explain how STAAD PRO is used for Physical modeling in Civil Engineering. | 20 |
| Q6 | a) Differentiate STAAD PRO and ETABS design and analysis software. | 10 |
| | b) Write the steps to optimize query in database. | 10 |
| Q7 | Explain data manipulation language. How they are used in SQL commands? Give the example. | 20 |
| Q8 | Define following : | |
| | a) ANSYS Simulation software | 10 |
| | b) Clipping and windowing | 10 |

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.