

[EM - 4203]

IV / IV B.E. Degree Examination

Second Semester

COMPUTER AIDED DESIGN

(Common for Mechanical and M P I Engineering)

(Effective from the Admitted Batch of 1999 - 2000)

Time : 3 hours

Max. Marks : 70

First question is compulsory.

Answer any FOUR out of the remaining questions.

Answers to question No.1 must be at one place.

All questions carry equal marks.

Assume suitable data wherever necessary.

1. a) What is hardware in CAD ?
b) What is meant by clipping ?
c) What is wire frame modelling ?
d) What is mesh generation ?
e) What is a package ?
f) What is an operating system ?
g) What are the applications of NASA - II ?
2. a) Explain the method of creating data-base for manufacturing.
b) Discuss the fundamentals of CAD.
3. a) What are graphic display units (devices) ? Explain them in detail.
b) Discuss various modelling techniques in detail.
4. a) What is meant by graphic user interface ? Explain.

- b) Discuss the linear transformation in CAD.
5. a) How do you describe 3-dimensional shape ? Explain.
b) Discuss the CAD techniques to finite element data preparation.
6. a) Explain the analysis of kinematics of crank slider mechanism using CAD package.
b) How do you analyse cross sectional area with CAD package ?
7. a) Discuss the applications of A.I., in design and CAD.
b) Explain the benefits of CAD.
8. Write short notes on :
- a) I/O devices
 - b) Windowing
 - c) ANSYS package