

[03 - 4203]

IV/IV B.E. DEGREE EXAMINATION.

Second Semester

COMPUTER AIDED DESIGN

(Common for Mechanical Engineering and MP and
I-Engineering)

Time : Three hours

Maximum : 70 marks

Answer question No. 1 and Answer any FOUR
questions from remaining.

Assume suitable missing data wherever necessary.

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

All questions carry equal marks.

1. (a) What are the applications of computers in
Design? Explain.

(b) Discuss the CAD system configuration in
detail.

2. (a) What are the benefits of CAD? Explain.

(b) What are transformation systems? Explain
with examples.

3. (a) What are various display files for 3D data? Explain them.

(b) Explain wire frame modelling technique in detail.

4. (a) Explain CAD techniques to finite element data preparation.

(b) Discuss the 3-dimensional shape description in CAD.

5. (a) What is computer aided design and analysis? Explain with examples.

(b) Analyse the cross section area of a connecting rod in detail.

6. (a) Discuss the Kinematics of a four bar mechanism.

(b) Explain the calculation of centroid for a plane figure i.e. a square.

7. (a) Explain the salient features of NASTRON CAD package in detail.

(b) Discuss the applications of Artificial Intelligence in CAD.

8. Write short notes on any two of the following :

- (a) The design process
- (b) NISA -II package
- (c) Graphical user interface.

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