

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2850

Roll No.

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B.Tech.

(SEM. VIII) EVEN THEORY EXAMINATION 2012-13

COMPUTER AIDED DESIGN

Time : 3 Hours

Total Marks : 100

Note :— (1) Answer all questions.

(2) Assume missing data.

1. Attempt any four parts :

(5×4=20)

- (a) Explain computer aided design.
- (b) Discuss advantages of CAD over conventional design.
- (c) Describe the typical requirement of different types of memory of modern CAD work station.
- (d) Discuss hardware required for CAD works.
- (e) Discuss elements of CAD.

2. Attempt any four parts :

(5×4=20)

- (a) How is the concept of modular programming different from the procedural programming ?
- (b) How debugging tools are used to debug any CAD software ?
- (c) Discuss principles of software design.
- (d) Discuss debugging.
- (e) List out functionality of different modules in any CAD software.

3. Attempt any **two** parts : **(10×2=20)**
- (a) Draw and explain the flow chart for the design of column.
 - (b) Discuss computer analysis for any civil engineering system.
 - (c) Discuss how optimum design can be achieved by use of computers.
4. Attempt any **two** parts : **(10×2=20)**
- (a) Discuss any structural engineering software with an example.
 - (b) For foundation (shallow) design which software is useful and why ?
 - (c) Discuss role of softwares in disaster mitigation in India.
5. Attempt any **one** part : **(20×1=20)**
- (a) Discuss expert system and its application.
 - (b) Discuss use of neural network in civil engineering.