

Total No. of Printed Pages:01

**SUBJECT CODE NO:- H-1671**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**M.E. (Mechanical)**  
**Elective-III: Computer Aided Design**  
**(REVISED)**

**[Time: Three Hours]****[Max.Marks:80]**

Please check whether you have got the right question paper.

- N.B
1. Solve any three questions from each section.
  2. Figures to the right indicate full marks.
  3. Assume suitable data, if necessary and state clearly.

**Section A**

- |     |   |    |
|-----|---|----|
| Q.1 | Explain embodiment design.  | 13 |
| Q.2 | What are software modules in CAD?   | 13 |
| Q.3 | Enlist and explain solid modeling tools in AutoCAD.                                       | 13 |
| Q.4 | What is significance of concatenation? Explain with example.                              | 13 |
| Q.5 | Write a short note on (any two):<br>a) Database in CAD<br>b) 3D transformation<br>c) IGES | 14 |

**Section B**

- |      |   |    |
|------|---|----|
| Q.6  | What is octree representation? Explain with example.  | 13 |
| Q.7  | What is FBM? Explain with example.  | 13 |
| Q.8  | What are mating conditions in assembly modeling? Discuss mating condition for hole and shaft assembly.        | 13 |
| Q.9  | What is design by feature? Discuss in detail.   | 13 |
| Q.10 | Write short notes (any two):<br>a) Surface representation<br>b) Curve representation<br>c) Tolerance modeling | 14 |