

**SUBJECT CODE :8079**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**M.E.(Mechanical) Examination Nov/Dec 2015**  
**Elective-III: Computer Aided Design**  
**(Revised)**

**[Time: Three Hours]**

**[Max. Marks: 80]**

“Please check whether you have got the right question paper.”

N.B i) Answer any three questions from each section

**Section-A**

- |   |    |
|---|----|
| Q.1 What is design for X ? Explain in detail.                                   | 13 |
| Q.2 Write about different solid modeling methods in detail                      | 13 |
| Q.3 Write about the capabilities, modules and sketching tools used in PRO/E     | 13 |
| Q.4 Write about 2D and 3D transformations for translation, scaling and rotation | 13 |
| Q.5 Write short notes on any two  | 14 |
| a. Human factor design  |    |
| b. Graphics Software  |    |
| c. Reflection   |    |

**Section-B**

- |   |    |
|---|----|
| Q.6 What is design information system? Explain in detail            | 13 |
| Q.7 What is octree representation and sweep representation? Explain | 13 |
| Q.8 Explain surface representations in detail                       | 13 |
| Q.9 What is PM and Tolerance modeling? Explain in detail            | 13 |
| Q.10 Write short notes on <u>any two</u> :-                         | 14 |
| a. Data exchange Standards  |    |
| b. B-Rep.   |    |
| c. Mating Conditions  |    |