

22234

M.Tech. 2nd Semester Mechanical Engg. Elective-I
(Machine Design) Examination, May-2017

COMPUTERAIDED DESIGN

Paper-M-838

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any five questions. All questions carry equal marks.

1. Explain with the help of neat diagram the full design process and role of design process in product designing. 20
2. Discuss the concept of Transformation and Rotation by different angles in sequential transformation. 20
3. Compare the splines created by B-spline and Bezier spline techniques for the same control points. Discuss the same in detail. 20
4. (a) Write down the various techniques used for the construction and editing of solid objects. Explain any two of them in detail. 10
(b) How can you use a cylinder primitive to generate a sphere ? 10

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5. What is the importance of CAD standards ? Explain initial graphics exchange specification CAD standard. 20
6. Discuss the liaison sequencing analysis in detail. 20
7. Explain the Visibility techniques-mini-max test and containment test suitable example. 20
8. Write short note on any *three* :
 - (a) Ray tracing algorithm
 - (b) Parts modeling and representation
 - (c) Various application software. 20

22234