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**B. Tech. 3rd Semester (ME) F. Scheme
Examination, December-2014
COMPUTER AIDED DESIGN
Paper-ME – 203-F**

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions. At least one question from each section. Question no. 1 is compulsory.

1. Explain briefly the following :

- | | |
|---------------------------|----|
| (a) CAPP | 5 |
| (b) CAD | 5 |
| (c) Sweep representation. | 10 |

Section-A

- 2. (a) Write the application's of CAD. 10**
(b) What are the Requirement of CAD in terms of Hardware and Software ? 10
- 3. Explain in detail for the Transformation : 4×5=20**
(i) Scaling (ii) Rotation
(iii) Reflection (iv) Translation

Section-B

- 4. Differentiate between Bezier curves and B-splines curves in detail. 20**

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5. (a) What are the ruled surfaces, sketch it ? 10
(b) "Surface of Revolution" explain in detail. 10

Section-C

6. Define Automation, types in detail with application. 20
7. Define Group Technology. Write its advantages. 20

Section-D

8. (a) Define FMS, its components, and types in detail. 12
(b) Write the planning of FMS. 8
9. Differentiate between finite element analysis and finite element modeling in brief. 20