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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **ME404 - CAD/CAM**

Generated At : **19-04-2022 10:28:11**

Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Solve any three

- a) Explain the product life cycle with CAD/CAM [6]
- b) Explain IGES file format in detail [6]
- c) A triangle ABC with vertices A(30,20), B(90,20) and C(30,80) is to be scaled by a factor of 0.5 about a pivot point X(50,40) determine the composite transformation matrix. [6]
- d) What is CAD workstations? Enlist the various function that should be accomplished by CAD workstation [6]

2) Solve any three

- a) Explain the use of computers in design process [6]
- b) Explain CSG as the approach to solid modeling with the help of suitable example [6]
- c) Explain in detail supervisory computer control [6]
- d) Discuss the basic components of robot [6]

3) Solve any three

- a) What do you mean by bounded media explain it any two types [6]
- b) What is automation? Explain its type in detail. [6]
- c) Explain characteristic of Bezier curves. [6]
- d) Enlist the type of layout used in flexible manufacturing system? Explain any one [6]

4) Solve the following

- a) Explain coordinate system used in CAD [3]
- b) Write note on sweeping [3]

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