

### SECTION-C

No. of Printed Pages : 4

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**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Briefly describe about design procedure.
- Q.4 Rotate and object defined by A(0,0), B(3.0), C(3,2) and D(0,2) by 60° by origin.
- Q.5 A line AB is defined by its end points A(6,3) and B(9,6) express the line in matrix notation and perform the following transformations.
- c) Scale the original line by a factor of 3 in X-direction and 3 in Y-direction.
  - d) Rotate the line about its origin.
- Q.6 Compare the wire frame modeling, solid modeling and surface modelling.
- Q.7 Explain the following commands.
- e) Array
  - f) Grid
  - g) Mirror
  - h) Zoom

**5th Sem. / CAD/ CAM**

**Subject : Computer Aided Design Drafting**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Topology.
  - b) UCS.
  - c) Define CAD.
  - d) Automation.
  - e) Name any two input devices.
  - f) Function of Trim command.
  - g) What is raster scan.
  - h) Define edge.
  - i) Entity.

(60)

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- j) Give full form of CRT.
- k) Function of digitizer.
- l) Name types of keyboards.
- m) What do you mean by DBMS.
- n) Name any two CAD data exchange formats.
- o) B-rep.
- p) List various CAD/CAM tools.
- q) What is direct view storage tube?
- r) Name any four microprocessors used in today's computer.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Define graphics standards. Explain any one type used for 3D modeling.
  - ii) List the reasons for implementing CAD.
  - iii) What is surface modeling?

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- iv) Define cad. What are the essentials of CAD?
- v) Scale the original line by a factor of 4 in x-direction and 2 in y-direction.
- vi) Differentiate between b-rep and c-rep.
- vii) Explain any one output devices with simple sketches.
- viii) Explain concatenation transformation.
- ix) What is enlarging scaling transformation give an example.
- x) Write the limitation of CAD.
- xi) Write short note on light pen.
- xii) Write advantages and disadvantages of automation.
- xiii) Write a short note on application of computer in design.
- xiv) What is difference between mirroring and rotation?
- xv) List out the merits and demerits of surface modeling.

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