4월

SET.

SE

翻壳

84

er.

0.75%

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March - 2016 CAD/CAM

(Common to ME, AE, AME, MSNT)

Time: 3 Hours

SP.

421

SFT.

\$54505

Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

1.a) Explain the basic structure and basic configuration of CAD/CAM software.

b) With neat sketch, explain the working principle of Refresh display and DVST.

c) Briefly discuss the various input devices for the graphics and state their functions.

2.a) Describe the Bresenham's algorithm.

b) Derive the transformation matrix for rotation about an arbitrary point.

c) What is clipping? Describe any one clipping algorithm. [5+5+5]

3.a) What are the various types of curve fitting manipulation techniques? Explain them.

b) What is feature modeling? Explain with an example.

[8+7]

4.a) What are the various types of display control commands? Explain their use with example.

b) Describe the Euler-Poincare formula for the boundary representation of solid modeling with an example. [7+8]

5.a) Draw the manual part programming sheet and explain how the entries are made in the sheet with the help of an example.

b) Discuss the various advantages of CNC over NC and conventional systems. [8+7]

6.a) What is production flow analysis? Discuss various steps involved in it.

b) What are the two approaches to computer aided process planning? Explain any one of them. [7+8]

7.a) Discuss the important effects likely to result from the application of computer aided quality control systems.

b) Explain how the inspection sensor technologies are classified.

BR

[8+7]

200 000 EDEF

OT,

8.a) Discuss the principle of material handling. Name and describe the five types of material handling devices.

b) Discuss the data files and system reports generated by the computer control systems of an FMS.

--00O00--