

AG AG AG AG AG AG AG A

Code No: 137AZ

**R16**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year I Semester Examinations, October/November - 2020**

AG AG AG AG AG AG AG A

**CAD/CAM**

**(Common to ME, AE, MSNT)**

**Time: 2 Hours**

**Max. Marks: 75**

**Answer any Five Questions  
All Questions Carry Equal Marks**

---

- 1.a) What is the general design procedure followed in CAD system.  
b) How the application of the computers is implemented to the design process. [7+8]
- 2.a) What are the requirements of the geometric modeling?  
b) Discuss the application of the curve fitting technique. [7+8]
- 3.a) Explain the features of surface of revolution and tabulated cylinder.  
b) What are offset, ruled and spherical surfaces? [8+7]
- 4.a) What are the basic elements of boundary representation scheme.  
b) Write short notes on the following  
i) Sweep representation  
ii) Spatial occupancy enumeration. [8+7]
- 5.a) What are the elements of NC system.  
b) What are the features of adaptive control systems? [7+8]
- 6.a) What are the functional components of DNC system.  
b) What is the function of a post processor in CNC system? [7+8]
- 7.a) Differentiate the generative type and retrieval type process planning.  
b) What are the benefits of material requirement planning? [7+8]
- 8.a) Discuss the characteristic features of flexible manufacturing system.  
b) What are the various types of machines used in FMS? [7+8]

---ooOoo---

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A