

RA

Code No: 137SR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March - 2022

CAD/CAM

(Automobile Engineering)

Time: 3 Hours

Max. Marks: 75

Answer Any Five Questions  
All Questions carry equal marks

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- 1.a) What are the benefits of CAD system?
- b) How design review and evaluation acts as a part of CAD System? [8+7]
- 2.a) How automated drafting acts as a part of CAD System?
- b) What are the various curve fitting techniques? [8+7]
- 3.a) Describe the features of parametric representation of surface of revolution.
- b) Express the parametric representation of plane patch defined by three points. [7+8]
- 4.a) Sketch and explain the parametric representation of three dimensional surface.
- b) How sweep representations are specified in solid modeling? [8+7]
- 5.a) Describe about the machine tool as a part of Component of NC system.
- b) What is the importance of process planning in NC procedure? [7+8]
- 6.a) What are the general characteristics in production required for NC control in any metal machining process.
- b) Discuss about the post processor used in a NC system. [8+7]
- 7.a) How production flow analysis acts as a part family in group technology?
- b) Discuss the information flow in a retrieval type of computer aided process planning systems. [7+8]
- 8.a) What are the various FMS layouts?
- b) What are the types of manufacturing systems exists in CIM environment? [8+7]

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