

Code No: 137SR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2021

CAD/CAM

(Automobile Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Discuss the relation between the production quantity and product variety.
b) State the basic tasks to be accomplished by the design workstation. [8+7]
- 2.a) How a three dimensional curve is represented?
b) Describe the characteristic features of the Bezier curves. [7+8]
- 3.a) How a three dimensional general surface and analytic surface is represented parametrically?
b) Describe the features of the ruled surface. [7+8]
- 4.a) What are the different types of sweeps used in creating solid models?
b) Discuss about the CSG schemes used in solid models. [7+8]
- 5.a) Explain the characteristics features of adaptive control constraint.
b) What are the basic functions of DNC system? [8+7]
- 6.a) Explain the parts classification and coding system used in GT.
b) What are the two general layouts used in group technology system? [7+8]
- 7.a) How the information flow takes place in generative type computer aided process planning?
b) What are the basic concepts implemented in material requirement planning? [8+7]
- 8.a) What are the limitations of machine vision inspection?
b) Describe the FMS equipment and layouts used in the existing industries. [7+8]

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