

Code: 17D04207

M.Tech II Semester Supplementary Examinations January/February 2019

COMPUTER AIDED TOOLS FOR MANUFACTURING

(CAD/CAM)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 (a) Explain clearly the various CAD tools and CAM tools.
(b) Discuss the four types of statements used in APT programming.

OR

- 2 (a) Narrate manufacturing processes removing, forming, deforming and joining.
(b) Discuss integration equipments. Integrating CAD, NC and CAM.

- 3 Discuss about CAPP approaches variant, generative and hybrid, process and planning systems.

OR

- 4 Elaborate CAM-I, D-CLASS and CMPP and criteria in selecting a CAPP system.

- 5 Describe the tolerance accumulation and surface quality – geometric tolerances – tolerances practices in design.

OR

- 6 Elaborate contact inspection methods – non contact inspection methods – non optical systems.

- 7 Discuss RE characteristic evaluation – software's and its application.

OR

- 8 Elaborate CMM and its feature capturing – surface and solid modelling systems.

- 9 Strategies for reverse engineering data management – software application – narrate a case study.

OR

- 10 Write a case study on rule based detection for RE user interface – RE of assembly programs.
