

**CODE: 17CD03105**

M. Tech I Year I Semester Regular Examinations, February 2018

**COMPUTER AIDED PROCESS PLANNING  
(CAD/CAM)**

Time : 3 hours

Max Marks : 60

Answer all **five** units. (5 x 12 = 60 Marks)

**UNIT-I**

1. (a) What are the benefits of CAPP?
- (b) What do you understand by Generative CAPP Systems?

OR

2. (a) Explain the need for process planning and discuss the two levels of process planning.
- (b) With a neat sketch, list the functions of process planning in the conventional manufacturing industry.

**UNIT-II**

3. (a) State the general steps for data retrieval modification.
- (b) Discuss the Advantages and Disadvantages of Variant CAPP.

OR

4. With a neat block diagram, explain how information flows in retrieval type of CAPP system.

**UNIT-III**

5. What is tolerance design? What are the two strategies of carrying out tolerance design? Explain.

OR

6. What are the factors, influencing surface roughness in machining? Explain.

**UNIT-IV**

7. Explain the concept of fixed zero and floating point zero?

OR

8. How to ensure Tool path generation using CAD/CAM? Explain.

**UNIT-V**

9. Write a note on MIPLAN.

OR

10. Explain the factors that must be considered when one attempts to implement a process planning system.

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