

**M. Tech.-III (Mechanical CAD/CAM) (CBCS – 2015 Course) :**

**WINTER - 2018**

**SUBJECT: SELF-STUDY PAPER - I: COMPUTER AIDED PROCESS PLANNING**

Day: Saturday  
Date: 08/12/2018

**W-2018-3264**

Time: 11.00 AM TO 02.00 PM  
Max. Marks: 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Assume suitable data if necessary.

**SECTION-I**

**Q.1** Write the difference between Process Planning and Concurrent Engineering? **(10)**

**OR**

With a case study explain how process planning is useful in manufacturing cycle. **(10)**

**Q.2** Describe in detail Geometric Transformation? **(10)**

**OR**

Explain the role of GT coding in Geometric midleveling for process planning? **(10)**

**Q.3** Differentiate between computer Aided process planning and various process planning. **(10)**

**OR**

Explain different Input formats for Process Planning. **(10)**

**SECTION-II**

**Q.4** Explain manufacturing system components and production volume of process planning. **(10)**

**OR**

Explain the following process planning families **(10)**  
a) CAM-I      b) MIPLAN

**Q.5** Explain procedure for Report Generation of totally integrated process planning system? **(10)**

**OR**

Explain expert process planning system? **(10)**

**Q.6** Classify different simulation packages? Explain any one of them in detail? **(10)**

**OR**

Explain the concept of process quality simulator with a case study? **(10)**

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