Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech S8 (Hons) Exam May 2020
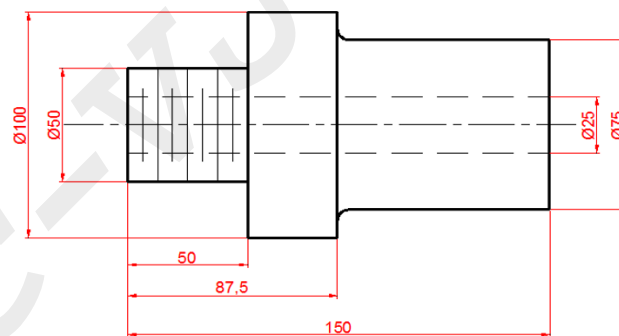
02ME6142.1 COMPUTER AIDED PROCESS PLANNING AND CONTROL

Max Marks: 60   Duration: 3 Hours

PART A

*(Answer **All** Questions)*

1)   What do you understand by the term group technology? What are its benefits?

2)   a) Give an account on the types of coding systems possible for group technology.

b) Explain the Opitz coding procedure to develop form code for the component shown below.

3)   What is decision table and what are its application in CAPP? What are its advantages over a decision tree?

4)   Explain artificial intelligence. Discuss the different types of knowledge involved in process planning system.

(4 x 9=36)

PART B

*(Answer **Any Two** from each question)*

5)   (a) Mention the various factors to be considered for the implementation of a CAPP system.

(b) Write short notes on

   (i) AUTOPLAN and PRO   (ii) AUTAP system

(c) Describe the function of MIPLAN CAPP system.

6) (a) What are the different features of TIPPS? Explain.

(b) Discuss about the operations involved in TIPPS.

(c) List the advantages and limitations of Expert Process Planning.

(2 x 12=24)

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