

B.Tech. SEM -VI Production 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: COMPUTER AIDED DESIGN AND MANUFACTURING

Day: Monday
Date: 27/05/2019

S-2019-2767

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to be the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagram **WHEREVER** necessary.
 - 4) Assume suitable data if necessary.
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Q.1 What do you understand by terms 'Transformations', 'Composite Transformations' and 'Homogeneous coordinates'? Explain. (10)

OR

Q.1 Explain following two dimensional geometric transformations (10)
a) Reflection
b) Rotation
c) Shear

Q.2 What is geometric modeling? Explain methods of geometric modeling in brief. (10)

OR

Q.2 Describe types of wire frame entities in detail. (10)

Q.3 a) What is the concept of manufacturing system? Explain their types. (05)
b) Discuss cellular manufacturing in brief. (05)

OR

Q.3 Define Automation. Explain strategies in automation of production system. (10)

Q.4 Describe in detail ESPRIT-CIM OSA model (10)

OR

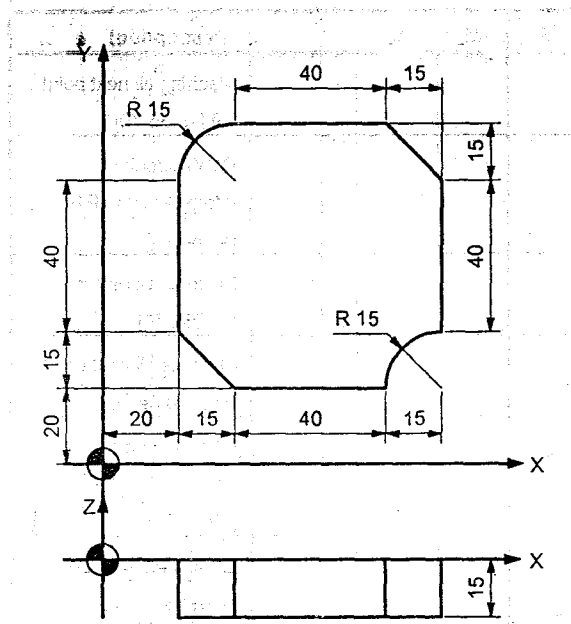
Q.4 Explain IBM concept of CIM in detail. (10)

P.T.O.

Q.5 What are the types of CNC machine tool? Explain any one in detail (10)

OR

Q.5 Write a part program for the following component. The part is 15mm thick. (10)
Use end mill cutter dia. 15mm, cutting speed 700rpm and feed 100mm/min



Q.6 Describe Generative process planning system. Also state benefits of CAPP (10)

OR

Q.6 What do you understand by 'Total integrated process planning system'? (10)
Explain.

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