

M.Tech I Semester Regular & Supplementary Examinations January/February 2019

COMPUTER INTEGRATED MANUFACTURING

(CAD/CAM)

(For students admitted in 2017 & 2018 only)

Time: 3 hours

Max. Marks: 60

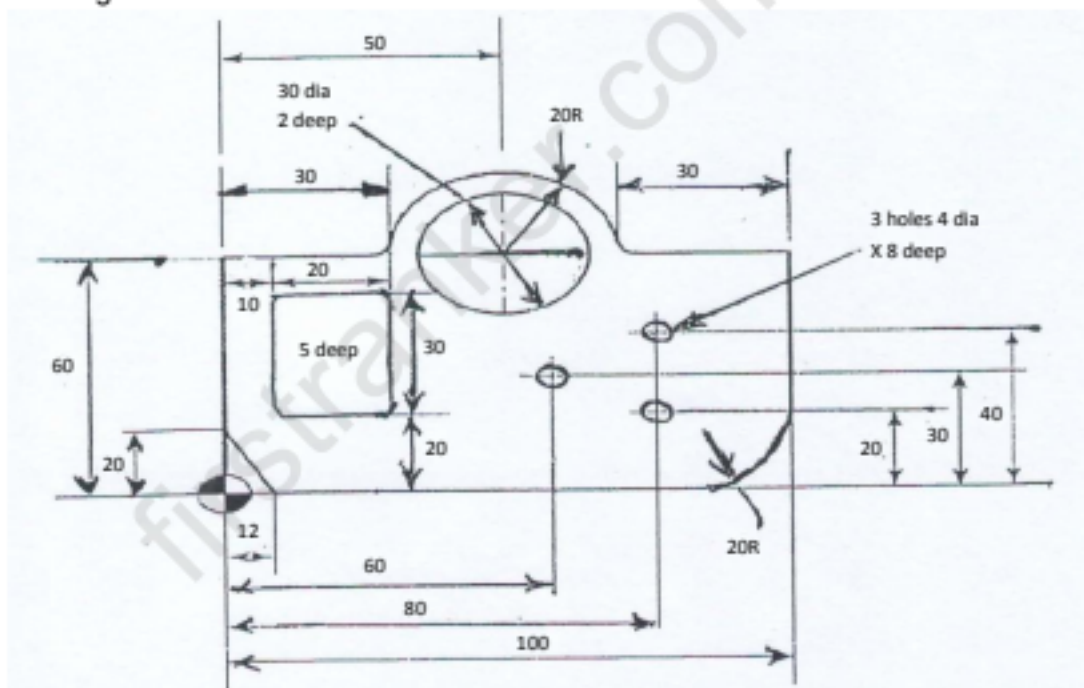
Answer all the questions

- 1 Explain briefly the Product cycle and CAD/CAM

OR

- 2 Explain the different levels of automation.

- 3 Write a manual part program for the component of thickness 8 mm, having the shape given in the figure. The various operations to be performed are: (i) A rectangular packet of size 30 x 20 x 5 mm deep. (ii) A circular packet of 30 mm diameter and 2 mm deep. (iii) 3 holes of 4 mm diameter as shown in the figure.



OR

- 4 Briefly explain how computer tasks in Computer- Assisted part programming.

- 5 Explain briefly Computer Numerical Control (CNC) and also list the various types of drive systems employed in CNC machines.

OR

- 6 Explain with an example how to form groups in GT and also its benefits.

- 7 Explain briefly Material Requirement Planning (MRP).

OR

- 8 What is flexible manufacturing system and explain its types?

- 9 With a neat sketch, explain Adaptive Control Machining System.

OR

10. With a neat sketch, explain the hierarchical structure of computers in manufacturing of an automobile sector.