Code No.: 9A03602/R09

B.Tech. III Year II Semester Regular & Supplementary Examinations **Set-3**

April/May - 2013

CAD/CAM

(Common to ME & MCT)

Time: 3 Hours Max. Marks: 70

*Answer any **FIVE** questions*

*All questions carry **equal** marks*

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1. What is the design work stations importance in CAD/CAM? Explain, how it is different from an ordinary computer system?

2. A rectangle has corner co-ordinates (10, 20), (40, 20), (40, 40), (10, 40). The rectangle is rotated by 60° anticlockwise about:

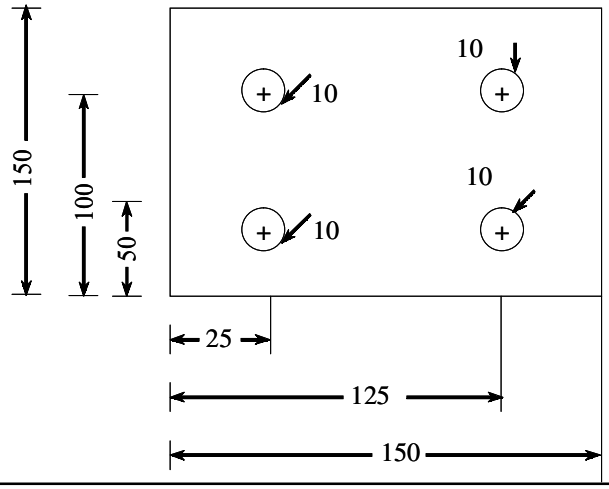
   (a) Origin and

   (b) About the point (40, 20).

   Compute the new coordinates in both cases.

3. What is geometric modeling? Explain various modeling methods used for CAD.

4. Write a NC computer aided part program for the part given below for drilling operation by making suitable assumptions required for machining.



5. What are part families? How are they formed? How are they related to group technology? Give examples of some part families.

6. What are the constituents of IMS? Discuss.

7. What do you understand by MRP-I? What are its components? Discuss.

8. (a) What is computer aided quality control?

   (b) How is it integrated with CAD/CAM?

   (c) What is required for it?