S.30

Code No.: 9A03602/R09

B.Tech. III Year II Semester Regular & Supplementary Examinations **Set-4**

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. (a) Compare the relative merits and demerits of different input devices.

   (b) What are the important hard copy devices used in CAD?

2. A rectangle has corner co-ordinates (5, 10) (20, 10), (20, 20), (5, 20). The rectangle is rotated by 30° anticlockwise about:

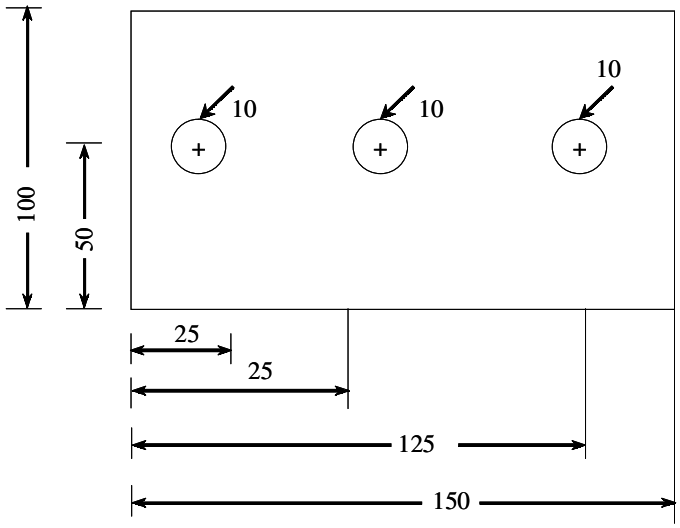
   (a) Origin and

   (b) About the point (20, 10).

   Compute the new co-ordinates in both cases.

3. What is a geometric model? Discuss various methods used to create a geometric model.

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



(All dimensions are in mm)

5. Explain the features of part classification and coding systems. Illustrate with an example.

6. What is an IMS? Explain various components of IMS in detail.

7. What is material resource planning? Explain with an example and suitable block diagrams.

8. Discuss the importance of computers in quality control in detail.