

Answer any **FIVE** Questions

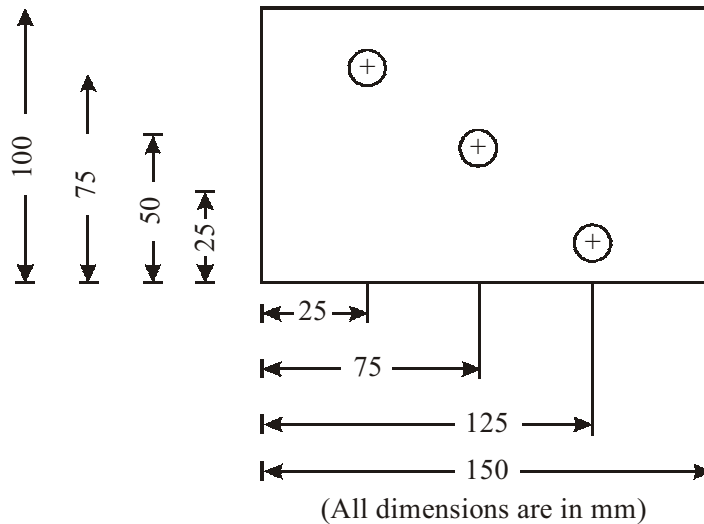
All Questions carry **Equal** Marks

1. With a system level block diagram. Explain the architecture of a typical work station used for CAD/CAM.

2. A rectangle has corner co-ordinates (10, 20), (40, 20), (40, 40), (10, 40). The rectangle is rotated by 30° anticlockwise about,
 - (a) Origin and
 - (b) About the point (40, 20).
 Compute the new co-ordinates in both cases.

3. In detail explain the salient features of solid modeling. What are the various concepts in it?

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 is group technology? When is it suitable in manufacturing? What are its benefits?

6. What is JIT? What are its advantages? Explain its concept in an automated system.

7. Discuss the principles involved in capacity planning in detail.

8. Briefly explain some of the methods used in computer aided quality control.