

Code No: OR210353]

II B.Tech. I-Semester Supplementary Examinations April/May-2005

**OR**

**MACHINE DRAWING**

(Common to Mechanical Engineering, Production Engineering and Mechatronics)

Time: 3 hours

Max. Marks: 70

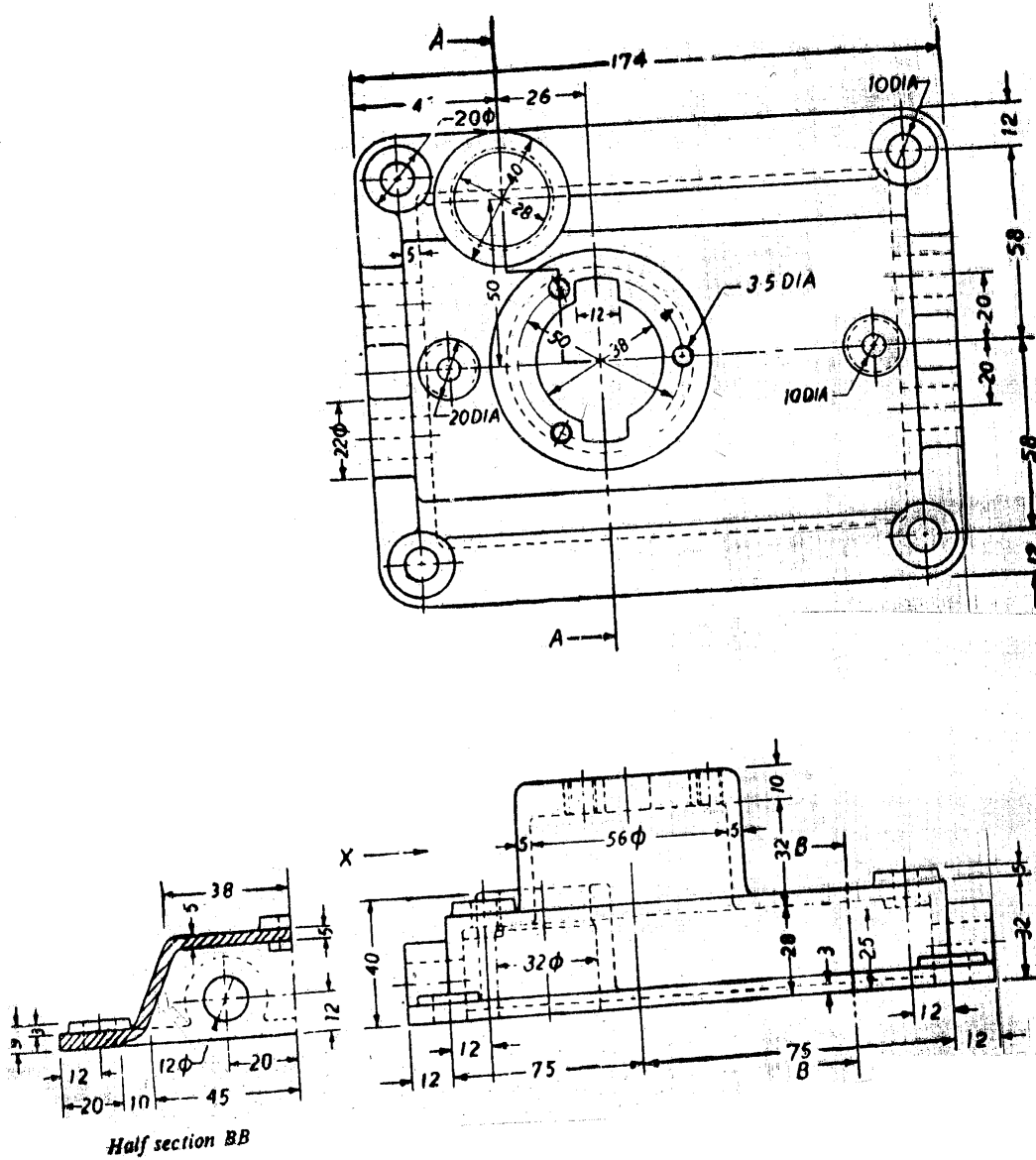
**Answer ALL questions**

**Assume any missing data suitably, if necessary.**

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1. Sketch any TWO of the following:
  - a) Show the conventional representation of the following materials by sketches
    - i) Rubber
    - ii) Cast iron
    - iii) Glass
    - iv) Wood
  - b) Show the Conventional representation of the following machine components by sketches.
    - i) Holes on Circular pitch
    - ii) Cylindrical tension spring
    - iii) External screw Threads
  - c) Show the method of dimensioning of the following by sketches.
    - i) Chamfers
    - ii) Taper features
    - iii) Screw Threads
2. Sketch any TWO of the following with proper dimensioning.
  - a) Draw half sectional front view top view of a solid journal bearing suitable for supporting a shaft of diameter 30 mm and mark the proportions.
  - b) Draw three views of a Hexagonal headed bolt of nominal diameter 30 mm and length 125 mm with a hexagonal nut and washer in place.
  - c) Draw Sectional view from front and view from above of a Double Riveted zig-zag lap joint to join plates of thickness 18 mm and provide all dimensions.
3. The figure shows the views of a gear box cover for an automobile. Draw the following views of the cover to scale full size:
  - a) Half Sectional elevation, looking in the direction of the arrow X.
  - b) Project sectional end view along HH, looking in the direction of the arrow.

**Contd.....2**



Gear Box Cover for an Automobile