06 ME 36A/ 06 ME 46A

USN | | | | | | | | | | |

III Sem B E Examination

COMPUTER AIDED MACHINE DRAWING

[Common to ME / IP / IM / AU / MA]

MODEL QUESTION PAPER

Time: 3 Hrs.] [Max. Marks: 100

Note: 1. Answer any **ONE** question from each of the parts **A**, **B** and **C**.
2. Use **FIRST ANGLE** projections only.
3. Missing data if any may suitably be assumed.
4. All the calculations should be on answer sheet supplied.
5. All the dimensions are in mm.

PART – A

1. a. An equilateral triangular pyramid of 30mm side of base and axis 60mm long rests with its base on HP such that one of the base edges is inclined at 45^0 to the VP and nearer to it. It is cut by a section plane inclined at 60^0 to the HP and perpendicular to the VP, intersecting the axis at 40mm from the vertex. Draw the front view, sectional views looking from the top and right side along with the cut solid. Also project the true shape of section. **(20 marks)**

   b. The pictorial view of a machine part is shown in figure. Draw the following view: i) Front View and ii) Side View **(20 marks)**

PART – B

2. a. Draw top and sectional front views of a double riveted chain lap joint. The thickness of the plate is 9mm. Show at least three rivets. Use snap rivets. Indicate all the dimensions. **(20 marks)**

   b. Draw i) half sectional front view with top half in section.
   ii) Side view of protected flanges to coupling to connect two shafts of diameter 25mm each. **(20 marks)**

PART – C

3. a. Figure shows the details of a Tail-stock of a lathe. Assemble the parts and Draw. (i) Sectional front view and (ii) Top View **(60 marks)**

   b. Details of a " PLUMMER BLOCK" are shown in figure. Assemble the parts and draw the following views of the assembly:
   a. Front view showing right half in section.
   b. Side view with left half in section. **(60 marks)**