PIET's College of Engineering, Pune-05.

End Semester Examination

(ME103) -Engineering Graphics.

Programme: F.Y.B.Tech
Year: 2005-06
Duration: 4 HRS.

All Branches.
Date: __/05/2006
Max. Marks: 60

Instruction:

1. Answer All Questions.
2. Assume suitable data if necessary and state it clearly.

Q. 1. A square pyramid (side of base 55, Axis 90), is kept on HP on its base with all sides of base equally inclined to VP A horizontal square prism (side of base 30 axis 100) penetrates completely, the above pyramid Axis of prism is parallel to VP and intersects the axis of pyramid 22 mm above its base. One of the vertical faces of prism is inclined to HP at 30°. Draw three view of this arrangement and show the lines of intersection in front view. **(10)**

Q. 2 A square pyramid (side of base 45, Axis 80) kept on HP on its base with all sides of base equally inclined to VP. A square hole of 30 mm side is cut through it such that the axis of hole is perpendicular to VP and is 6 mm away from axis of pyramid and is 20mm above the base of pyramid. All vertical faces of hole are equally inclined to HP. Develop the lateral surface of the pyramid. **(10)**

OR

Q 2. Fig. 1 shows, the development of a cone. A rectangle is drawn on its surface. Show the rectangle on surface of the cone in front view and top view when it is kept on HP on its base. **(10)**

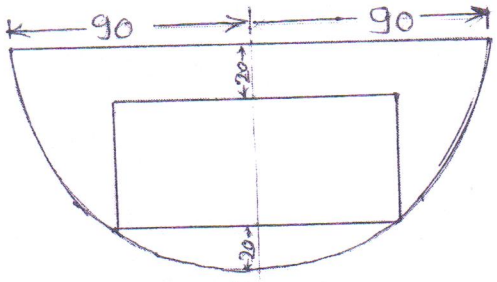

Fig. 1

Q.3 Fig.2 shows pictorial view of an object. Draw with first angle Method of projection -

I) Sectional front view (in direction X).

II) Top view. **(10)**

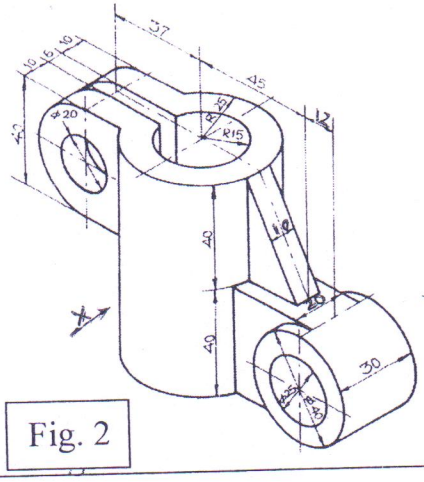

Fig. 2

Q. 4. Fig. 3, Shows two views of an object. Draw
I) Sectional left hand side view. (Sec. B-B) II) Front view. III) Top View. (10)

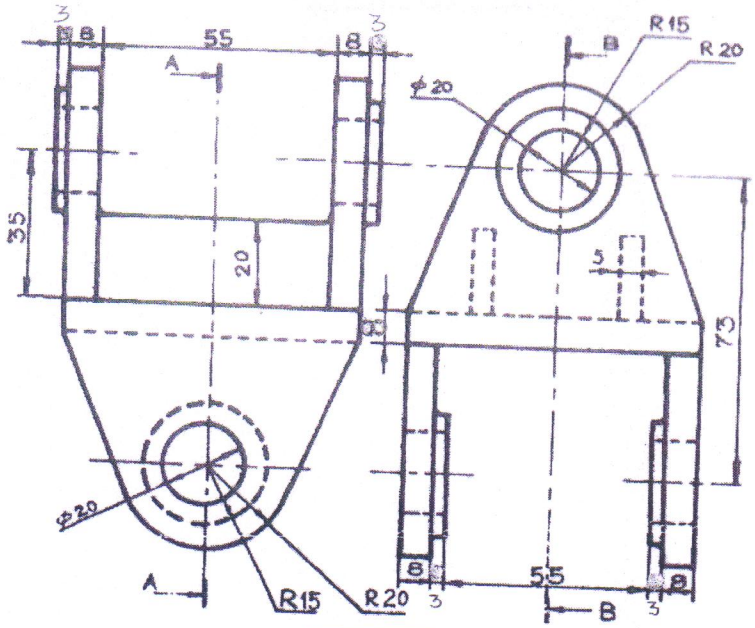

Fig. 3

OR

Q. 4. Fig. 4, Shows two views of an object -
Draw – I) Sectional front view [Sec. B-B]
II) Top view
III) Right hand side view. **(10)**

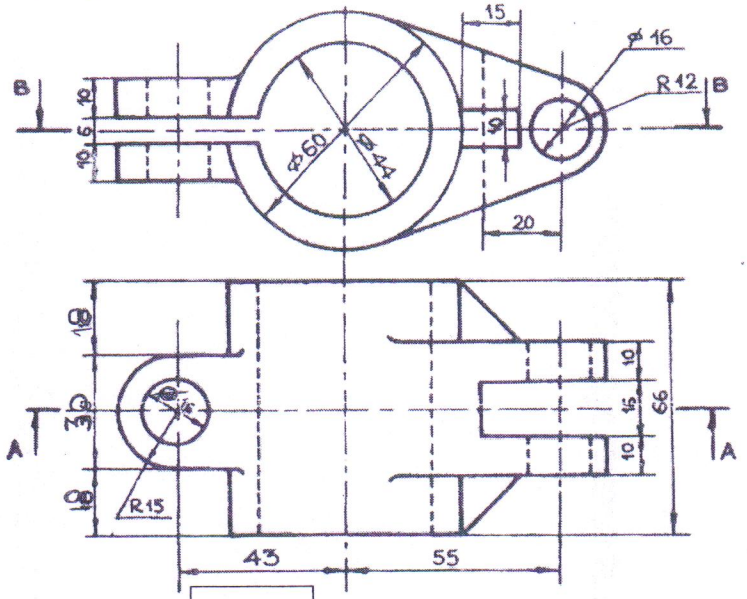

Fig. 4

Q. 5 Fig. 5, Shows two views of an object. Draw Isometric View of the object. **(10)**

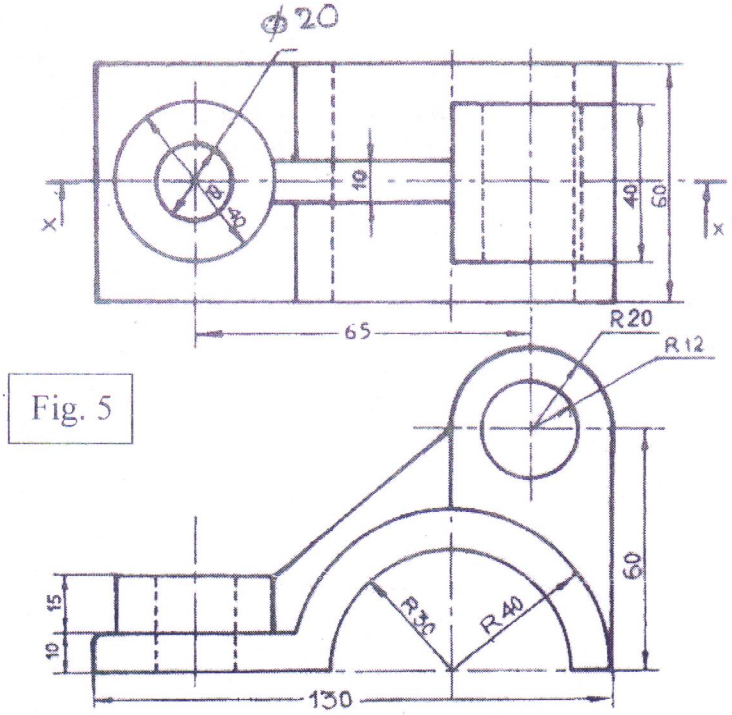

Fig. 5

OR

Q. 5 Fig. 6, Shows two views of an object. Draw Isometric View of the object. **(10)**

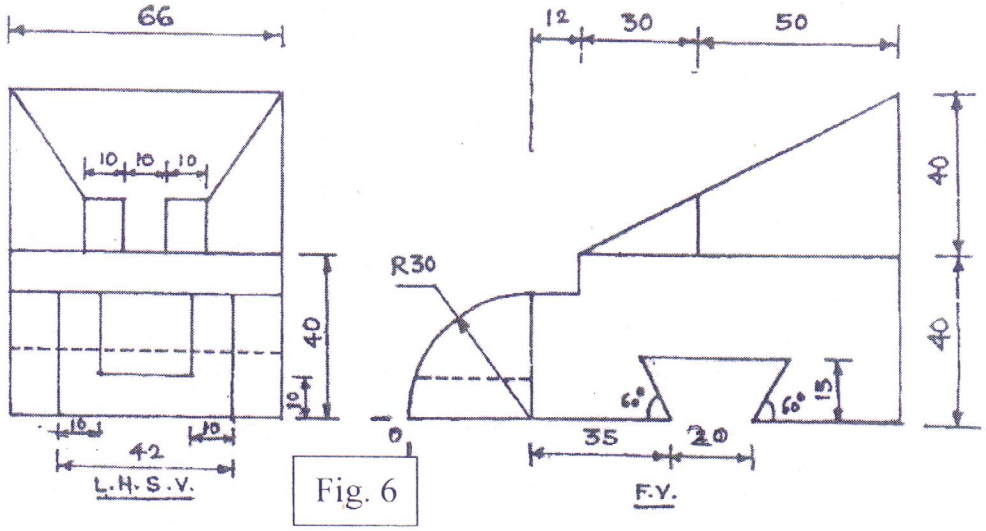

Fig. 6

Q. 6 Draw free hand sketches of -

I) Split pin locking arrangement.
II) Eye foundation bolt
III) Socket and spigot joint. **(10)**

OR

Q. 6 Draw free hand sketches of
I) Castle nut locking arrangement. II) Lewis foundation bolt. III) Knuckle joint. **(10)**

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