S.B.Roll	No
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MECHANICAL ENGINEERING DRAWING-II 4TH Exam/Mech/5303/2453/May'15

Duration: 03 Hrs Maximum Marks: 75

Attempt any Three Questions

03 x 25 = 75

- Figure 1 shows the details of a Drilling Jig. Assemble all the parts and draw the Sectional Elevation. Make the List of Materials also.
- 2. Figure 2 shows the "Crankshaft and Flywheel" of an I C Engine. Assemble the parts and draw the following orthographic views.
 - a) Front View Full in Section (the Crank Shaft is not to be in Section)
 - b) Side View Outside (looking from the right side)
- Figure 3 shows the detailed parts of a Mechanical Screw Jack. Assemble them and draw Elevation Right-Half in Section. Also make the Bill of Materials.
- 4. A wheel has 24 teeth of 33 mm circular pitch and pressure angle 20°. Set out the various circles and a few teeth.
- 5. Draw the profile of a cam to fulfill the following requirements:

Minimum distance of cam centre to edge = 35 mm

Lift of the follower = 30 mm

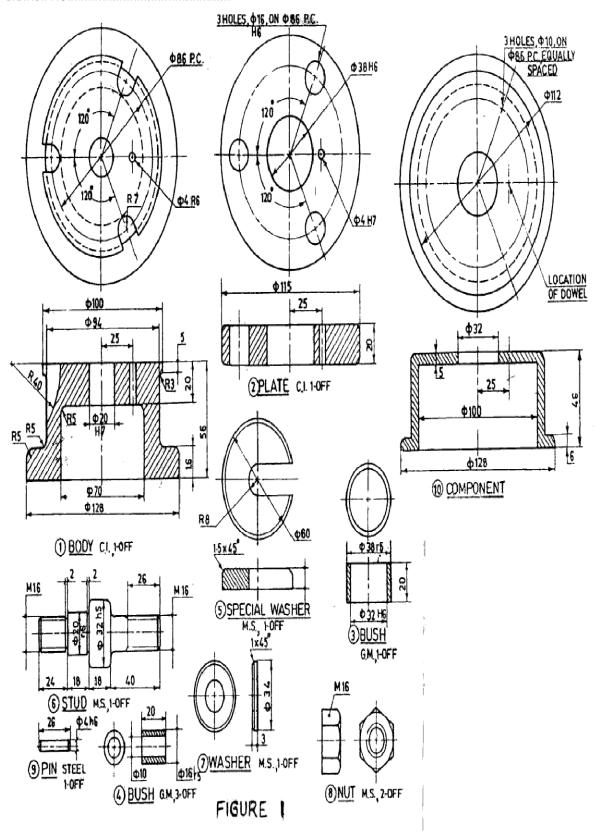
The cam lifts the Knife Edge Follower with Simple Harmonic Motion during 120° of revolution, then remains at rest for next 60°, then falls with Uniform Velocity Motion during rest of the motion.

The diameter of the shaft is 30 mm and the cam rotates in anticlockwise direction.

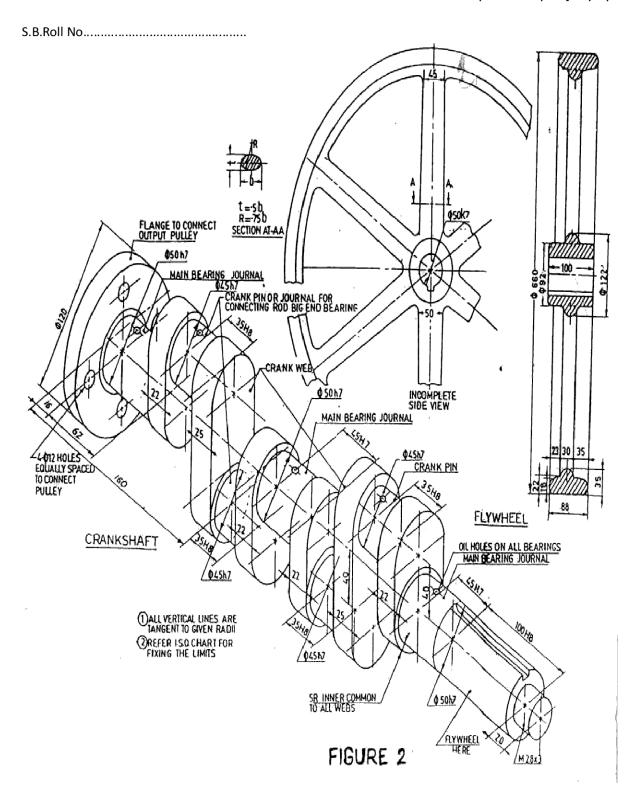
Figures attached

Page 1 of 4

S.B.Roll No.....



Page 2 of 4



Page 3 of 4

