

II B.Tech I Semester Supplementary Examinations, November 2005
MACHINE DRAWING
(Common to Mechanical Engineering, Mechatronics, Production Engineering
and Aeronautical Engineering)

Time: 3 hours**Max Marks: 80**

1. Answer any two of the following:

- (a) Cotter and gib joint for joining two square bars. The size is 40mm×40mm.
- (b) Double corner double rivetted butt joint-zig. zag formation for plates thickness of 15mm.
- (c) Draw sectional views of the following thread profiles with pitch=10mm.
 - i. B.A. thread
 - ii. Buttress thread
 - iii. Sellers thread
- (d) Split muff coupling for 50mm dia shaft. Draw sectional front view and top view for a,b & d [2×20=40]

2. The details of parts of a piston assembly are given in figure1. Draw the following views of assembled piston.

- (a) Sectional front view
- (b) Sectional top view
- (c) Half sectional side view. [40m]

Parts list

Sl No	Qty	Name	Material
1	1	piston	LM13
2	2	circlip 1mm thick	Ni-Cr. steel
3	1	piston pin	Ni-Cr.steel
4	5	piston rings	CI

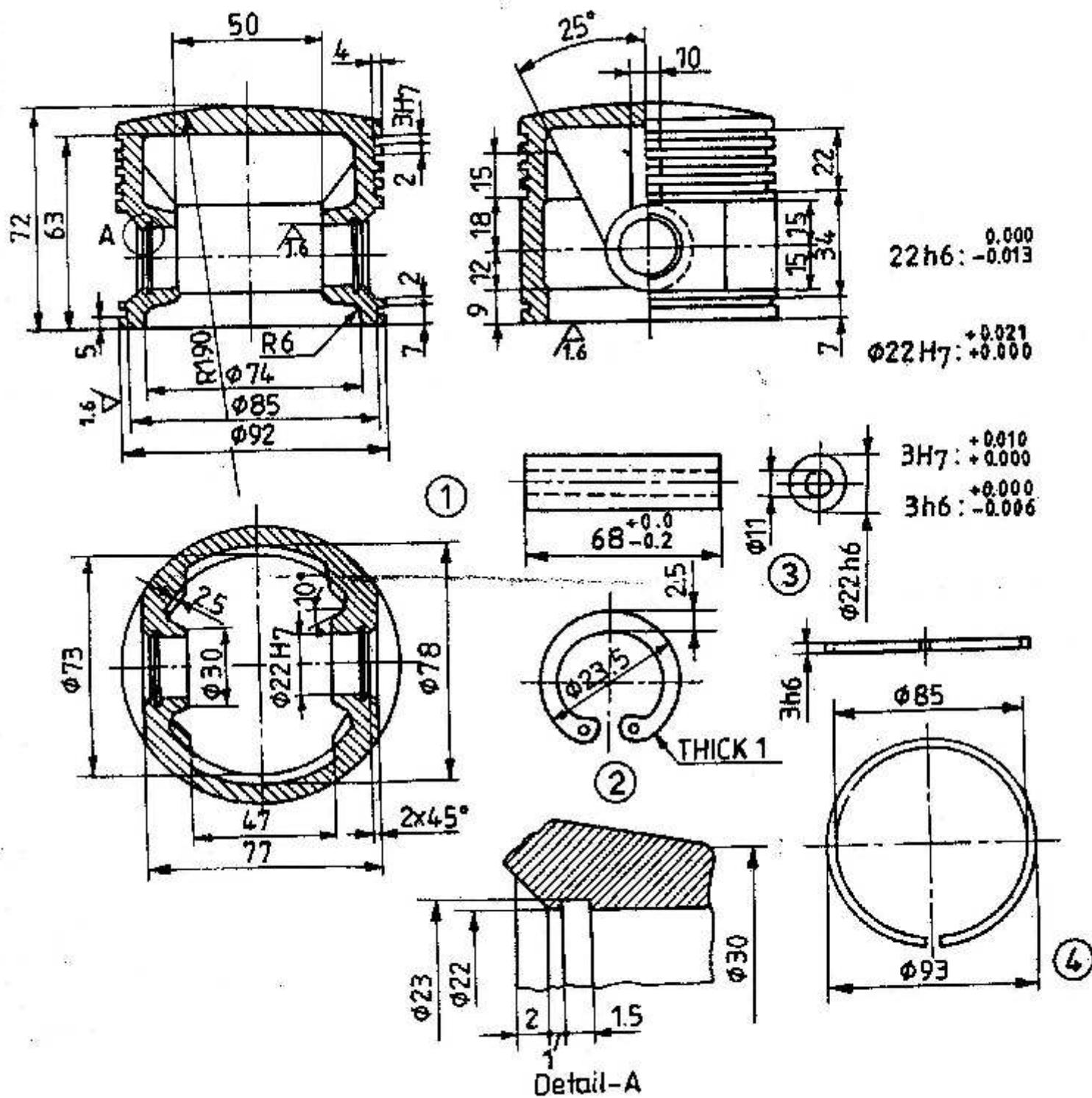


Figure 1: