

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 04

Total No. of Questions : 07

B.Tech. (Machine Engg.)/(ME) (Sem.-3)

**MACHINE DRAWING**

Subject Code : BTME-303

M.Code : 59113

Date of Examination : 17-01-23

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of NINE questions carrying TWO marks each.
2. SECTION-B contains FOUR questions carrying FOUR marks each and students have to attempt any THREE questions.
3. SECTION-C contains TWO questions carrying THIRTY marks each and students have to attempt any ONE question.

**SECTION-A**

1. Answer briefly :

- a) Draw symbols for :
  - i) Square butt weld
  - ii) Single V butt weld.
- b) Draw two different types of rivet heads.
- c) What is the purpose of caulking and fullering of riveted joints?
- d) What are the advantages of welded joints over riveted joints?
- e) What are multi start threads?
- f) What is difference between chain dimensioning and datum dimensioning?
- g) What is a stud or stud bolt?
- h) What is function of a feed check valve?
- i) What is expansion joint?

## SECTION-B

2. Draw free hand front view of a Gib and cotter joint.
3. Draw profile of metric threads by taking pitch of 20 mm. Represent angle and height of thread on the drawing.
4. Draw free hand sketch of IC engine piston.
5. Draw free hand front view (upper half in section) of a pin type flexible coupling.

## SECTION-C

6. Fig. 1 represents the parts of a **Blow off cock**. Assemble the parts and draw the following views :
  - a) Full section elevation
  - b) Top view

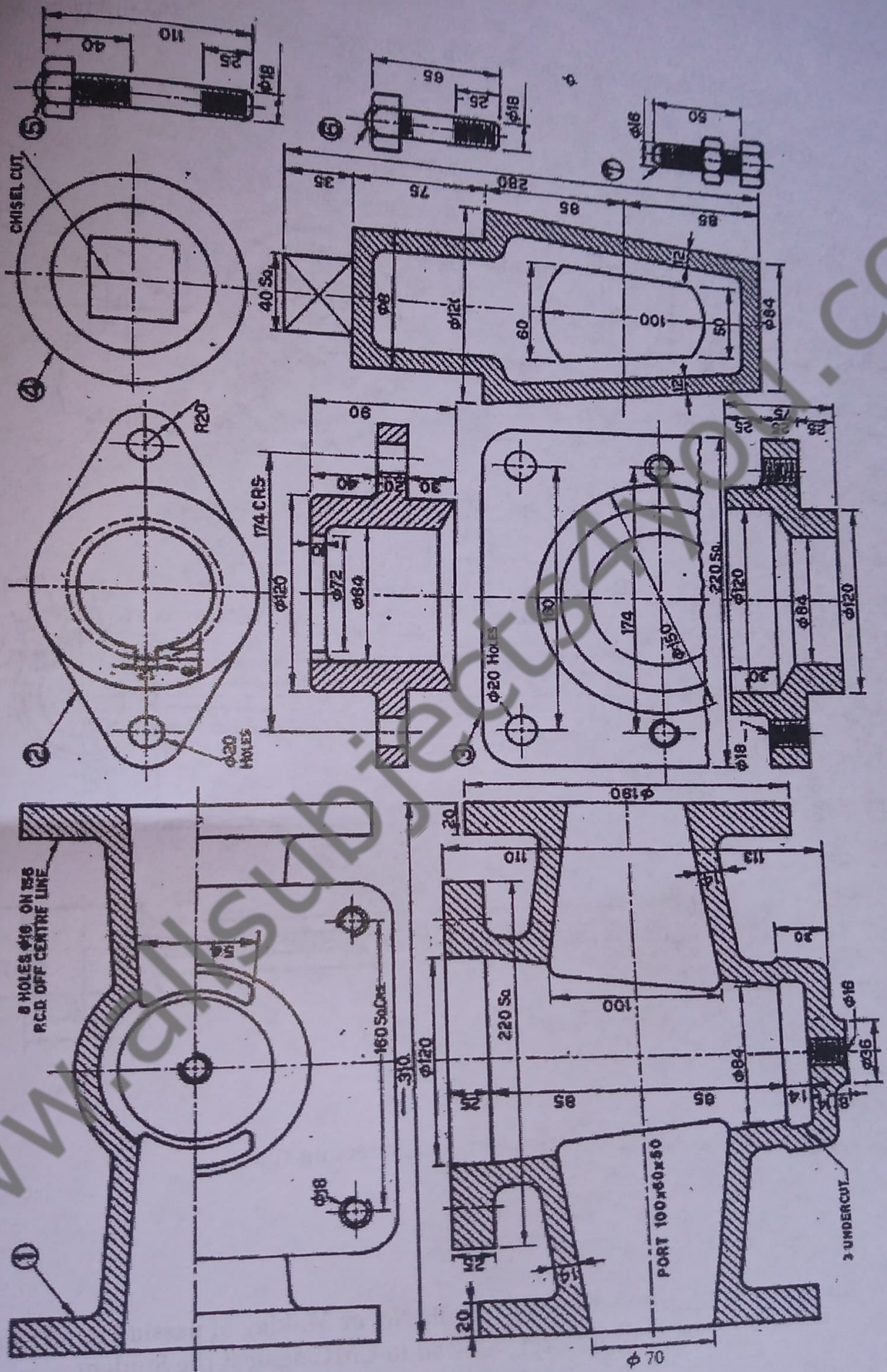


Fig.-1