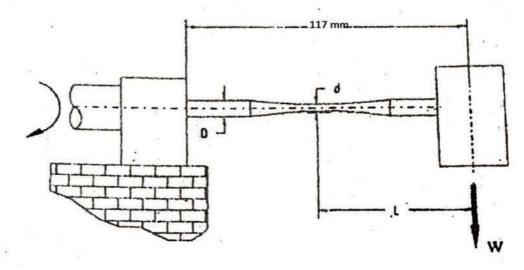
## FATIGUE TEST

- 1) Read the theory of fatigue test in your notes.
- 2) Measure the dimensions of the specimen.
- 3) Set the center to zero and note the reading on the frequency clock:
- 4) Place the given weights.
- 5) Start the experiment and run until fracture.
- 5) Calculate moment (M), Inertia (I), and stress (O), by using given data.
- 7) Draw S-N curve.
- 8) Mark the important points on the S-N curve (e.g. Se, low and high cycle regions etc).

## Use the following data for calculations:



D=6.75mm d=3.8mm L=105mm

No	W (01)	No. of cycles	strass[kg/mm²
1			reserve to conference of profile contentions
2		-	*******
3		-	,
4			
5			
6			
7			<del></del>
8			
9			
10			
11			·
12			****
-			·

NGTE: The following should be included in your test reports:

1-introduction

2-Theory of experiment

3-Calculations, test data, graphics with their explanations.

4-Discussion and conclusion.