
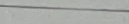


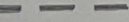
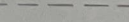
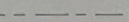
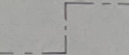

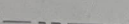


# FUNDAMENTALS OF ENGINEERING DRAWINGS

## 1. LINE STYLES OR TYPE

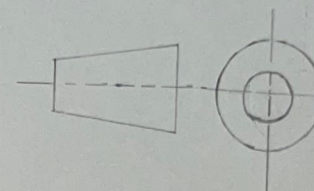
LINES	PENCILS
INITIAL WORK AND CONSTRUCTION LINES	H
OUTLINES DOTTED LINES, SECTION-PLANE LINES	
DIMENSION LINES, ARROWHEADS	2H
CENTRE LINES, SECTION LINES	3H OR 4H

LINE	DESCRIPTION	GENERAL APPLICATIONS
A 	CONTINUOUS THICK	VISIBLE OUTLINES VISIBLE OUTLINES
B 	CONTINUOUS THIN STRAIGHT OR CURVED	IMAGINARY LINES OF INTERSECTION DIMENSION LINES PROJECTION LINES LEADER LINES HATCHING OUTLINES OF REVOLVED SECTION IN PLACE SHORT CENTRE LINES
C 	CONTINUOUS THIN FREEHAND	LIMIT OF PARTIAL OR INTERRUPTED VIEWS AND SECTION IF THE LIMIT IS NOT A CHAIN LINE.
D 	CONTINUOUS THIN STRAIGHT WITH ZIG-ZAG	LONG-BREAK LINE
E 	DASHED THICK	HIDDEN OUTLINES HIDDEN EDGES
F 	DASHED THIN	HIDDEN OUTLINES HIDDEN EDGES
G 	CHAIN THIN	CENTRE LINE LINE OF SYMMETRY TRAJECTORY
H 	CHAIN THIN, THICK ENDS AND CHANGES OF DIRECTION	CUTTING PLANES
I 	CHAIN THICK	INDICATION OF LINEAR SURFACE TO WHICH A SPECIAL REQUIREMENT APPLIES
J 	CHAIN THIN DOUBLE DASHED	OUTLINES OF ADJACENT PART, ALTERNATIVE AND EXTREME POSITIONS OF MOVABLE PART CENTROIDAL LINES, INITIAL OUTLINES PRIOR TO FORMING PART SITUATED IN FRONT OF THE CUTTING PLANE.

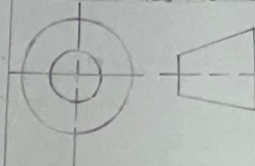
## 2. METHODS OF INDICATING DIMENSIONS

## UNIDIRECTIONAL METHOD OF DIMENSIONS

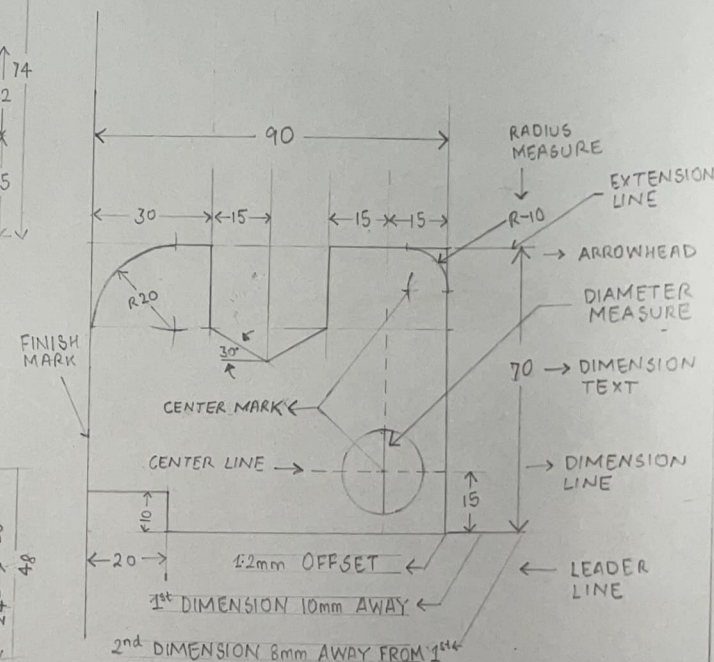
### 3. SYMBOL OF FIRST ANGLE METHOD



#### 4. SYMBOL OF THIRD ANGLE METHOD



## 5. DIMENSIONING CONVENTIONS



### ALIGNED METHOD OF DIMENSIONS