

**NAME: OBE CORNELIUS
MBA.**

**MATRIC NO:
18/ENG06/049.**

**DEPARTMENT:
MECHANICAL
ENGINEERING.**

**COURSE CODE: ENG
282.**

**COURSE: ENGINEERING
DRAWING .**

SUBJECTIVE

- 1.) *A SECTION IS REPRESENTED BY HATCHING LINES.*
- 2.) *DIMENSION AND PROJECTION LINES ARE NARROW CONTINUOUS LINES 0.35MM THICK, IF POSSIBLE, CLEARLY PLACED OUTSIDE THE OUTLINE OF THE DRAWING.*
 - II.) *ARROWHEAD SHOULD BE APPROXIMATELY TRIANGULAR, MUST BE UNIFORM SIZE AND SHAPE AND IN EVERY CASE TOUCH THE DIMENSION LINES TO WHICH THEY REFER.*
 - III.) *ARROWHEAD DRAWN MANUALLY SHOULD BE FILLED IN, ARROWHEADS DRAWN BY MACHINE DOES NOT NEED TO BE FILLED IN.*
 - IV.) *ADEQUATE SPACE MUST BE LEFT BETWEEN ROWS OF DIMENSIONS AND A SPACING OF ABOUT 12MM IS RECOMMENDED.*
 - V.) *CENTRE LINES MUST NEVER BE USED AS DIMENSION LINES BUT MUST BE LEFT CLEAR AND DISTINCT.*
 - VI.) *DIMENSIONS ARE QUOTED IN MILLIMETRES TO THE MINIMUM NUMBER OF SIGNIFICANT FIGURES.*
 - VII.) *TO ENABLE DIMENSION TO BE READ CLEARLY, FIGURES ARE PLACED SO THAT THEY CAN BE READ FROM THE BOTTOM OF THE DRAWING.*
- 3.) *HALF SECTION;*

THIS IS A VIEW OF AN OBJECT SHOWING ONE HALF OF THE VIEW IN SECTION, THE DIAGONAL LINES ON THE SECTION DRAWING.

FULL SECTION;

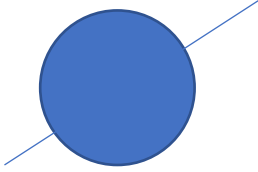
IF THE IMAGINARY CUTTING PLANE PHASES THROUGH THE ENTIRE OBJECT, SPLITTING THE DRAWN OBJECT IN TWO WITH THE INTERIOR OF THE OBJECT REVEALED.
- 4.) *A LEADER LINE CAN BE TERMINATED IN THREE WAYS.*
 - I.) *WITH A DOT WITHIN THE OUTLINE OF THE OBJECT (SURFACE)*
 - II.) *WITH AN ARROWHEAD ON THE OUTLINE OF THE OBJECT (EDGE)*
 - III.) *WITHOUT A DOT OR AN ARROWHEAD ON A DIMENSION LINE.*
- 5.) *SCALE 5:1*

THIS MEANS THE DRAWING WILL MEAN THAT THE DRAWING OF THE OBJECT IS 5 TIMES AS LARGE AS THE OBJECT ITSELF.

SCALE 1:10

THIS MEANS THE OBJECT IS 10 TIMES SMALLER THAN IN REAL LIFE.

6.) DIAMETER



RADIUS

R

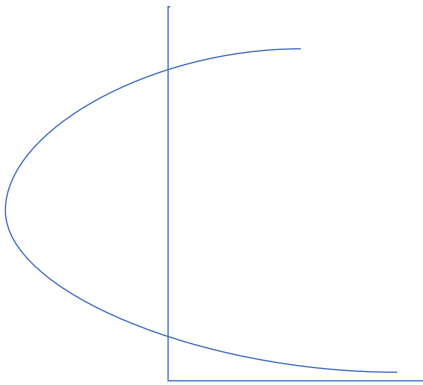
SQUARE



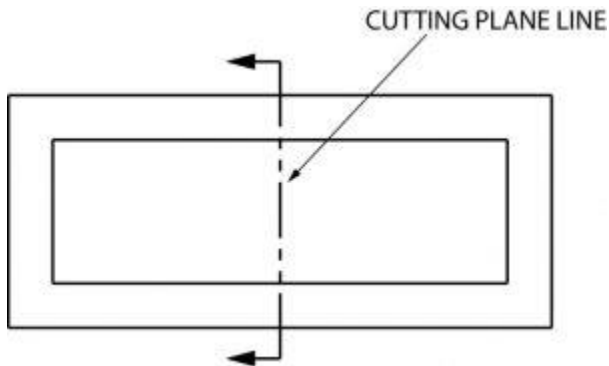
SPHERICAL RADIUS

SR

CENTRE LINE



CUTTING PLANE LINE

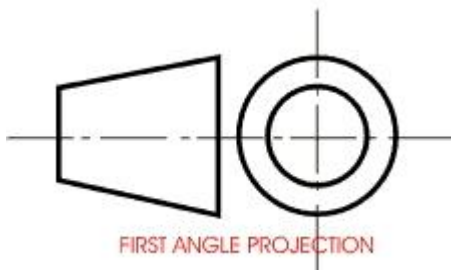


LONG BREAK

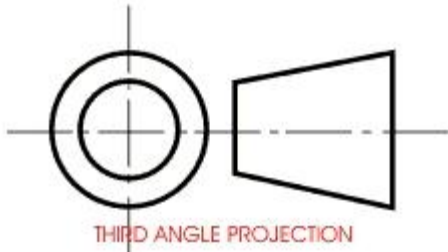


7.) ***AN ORTHOGRAPHIC PROJECTION IS A MEANS OF REPRESENTING THREE DIMENSIONAL OBJECTS IN TWO DIMENSIONS..***

8.) ***FIRST ANGLE PROJECTION IS A METHOD OF CREATING A 2D DRAWING OF A 3D OBJECT.***



THIRD ANGLE PROJECTION IS A METHOD OF ORTHOGRAPHIC PROJECTION WHICH IS A TECHNIQUE IN PORTRAYING A 3D DESIGN USING A SERIES OF 2D VIEWS.



OBJECTIVES

- 1.) *A*
- 2.) *B*
- 3.) *C*
- 4.) *B*
- 5.) *A*
- 6.) *B*
- 7.) *C*
- 8.) *B*
- 9.) *A*
- 10.) *A*
- 11.) *C*
- 12.) *A*
- 13.) *D*
- 14.) *C*
- 15.) *D*