

Shri Shankaracharya Institute of Professional Management & Technology, Raipur

April-May-2021- Class Test-1 (July-2021)

Date: 09./.0//2021															
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Enrollment No.:		.: [В		J		4	5		9	9				
Course: B.Tech Semester: 2nd Branch: COMPUTER SCIENCE AND ENGINEERING															
Subject Name: ENGINEERING GRAPHICS AND DESIGN															
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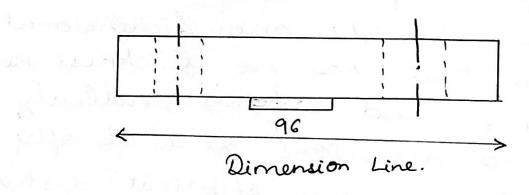
Unit - I

Any: Every drawing, whether a scale drawing or freshhand drawing, besides showing the true shape Of an object, must supply its exact length, height, sizes and posiations of holes, grooves etc. and such other details relating to the manufacture of that object.

There are Two types of dimensions needed on a drawing are:

(i) sizes or functional dimensions

(ii) Location or datum dimensions (shown by letters F and L respectively).



Dimensioning Terms and Notations:

- 1) Dimension Line: Dimension line is a thin line. It is terminated by arrowheads touching the outlines, extension lines or centre lines.
 - 2) Extension Line: An extension line is also a thin continuous line drawn in extension of an outline.
 - 3.) Arrowhead: An arrowhead is placed at each end of a dimension line.
 - 4) Leader: A leader or a pointer is a thin continuous line connecting a note or a dimension figure with the feature to which it applies.

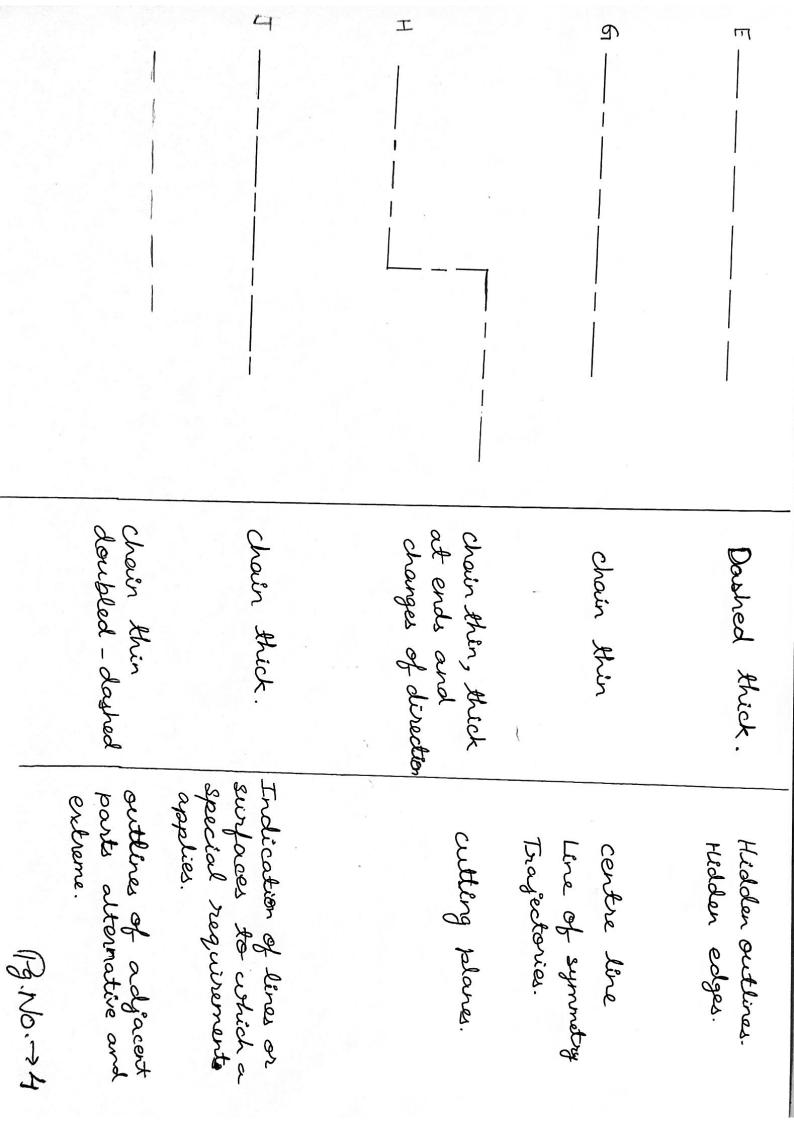
<u>033</u>>

In geometry, a line can be defined as a straight one-dimensional figure that has no thickness no figure that has no thickness no thickness and extends endlessly thickness and extends endlessly thickness and extends endlessly in both directions. It is obtoften in both directions the shortest distance described as the shortest distance between any two points.

Pg. No. > 2

		В	A HB	Line
continuous thin freehard freehard. continuous thin (straight) with zigzags		continuous thin (straight or curved)	Continuous thick	Description
timits of partial or interrupted sections if she limit is not a drain the line. Long-break line.	Leader lines. Leader lines. Hatching lines outlines of revolved sections in place short centre lines.	Imaginary lines of interact Dimension lines.	Visible outlines	General application

B.No.→3



$$R.F. = \frac{3.2 \text{ cm}}{4 \times 100 \text{ cm}} = \frac{1}{125}$$

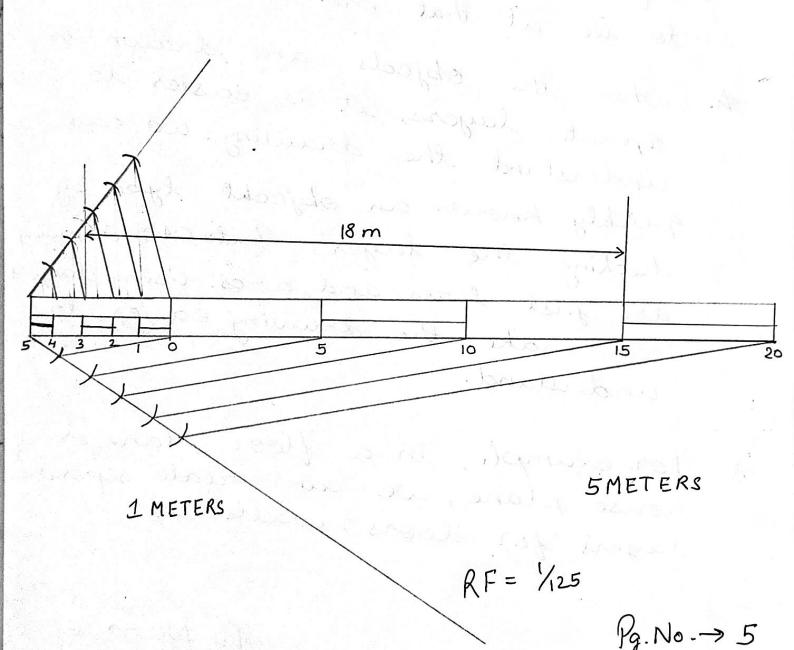
Max Length = 25m.

Length = 25 m

Length of scale = Max Length × R.F. = $25 \times \frac{1}{125} \times 100 = 20 \text{ cm}$.

Scale is Divided into forts 5 parts,

=> n=5



Unit - I

<u>Q1</u>>

Ay -> * Layers are primary method for organising the objects in a drawing by function or purpose.

Layers can resolve visual complementary of a drawing and improve dit display performance by holding hiding information that your don't need information that moment.

when the objects are drawn in seperate layers, it is easier to understand the drawing. We can quickly known an object type by checking the layer. AutoCAD drawing are just lines and arcs. Using layers can make the drawing easier to understand.

* For example, in a floor plane or house plane, we can create seperate layers for doors, walls etc. (32)
Ay→ Computer aided drawing/Drafting
as a process of preparing a drawing
is a process of the screen of a
of an object on the screen of a
computer.

There are various types of drawings required in different fields of engineering and science.

* In the field of child engineering, plans and layouts of buildings are prepared.

An all other fields of engineering use of computer is made for drawing and drafting.

The use of CAD process provides designer to:

* Conceptualize his ideas.

A Modify the design very easily.

* perform animations.

A Make design calculations.

Use colours, forts and other aesthetic features.

Benefits of CAD:

A Improved productivity in drafting.

A Shorter preparation time for drawing.

A Reduced man-power requirement.

* Customer modifications in drawing are easier.

A More efficient operations in drafting.

A Low wastage in drawing.

Limitations of CAD:

At requires large amount of computer memory.

A The size of the software package is large.

& Skill manpower is required to prepare the drawing.

* Huge investment.

A Heavy dependency.

<u>033</u>'> Ay -> Command LINE (4) Specify first point: 20,20 (d)

Specify next point or [undo]: @ 80<0(d) Specify next point or [undo]: @ 30 < 90(4) Specify next point or [tot close/undo]: @10 < 180(4) next point or [close/undo]:@15<108(4) Specify next point or [close/undo]: @ 10 < 180(4) Specify next point or [close/undo]:@15<252(4) specify next point or [close/undo]: @ 20 < 180(4) specify next point or [close/undo]:@14.27<90(4) next point or [close/undo]:@20 < 180 (21) specify next point or [close/undo]:@14.27<270(4) specify next point or [close/undo]:@10.73<180(d) specify Specify next point or [close/undo]: c (4). specify

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