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MAT NO: 18/ENGD2/038

Dept: Computer Engineering

Assignment

- 1.) To represent a sectional surface on a drawing line are drawn at angle 45° and spaced a hole $1/8$ apart.
- 2.) All dimensions information necessary to define a part clearly and completely shall be shown directly on a drawing.
 - i.) Each feature shall be dimensioned once only on a drawing.
 - ii.) As far as possible, on a drawing, dimensions should be expressed in one unit only, preferably in millimeters, without showing the unit symbol or unit on the drawing.
 - iii.) Dimensions shall be placed on the view or section that shows clearly the corresponding features.
 - iv.) No more dimensions than are necessary to define a part shall be shown on the drawing, no feature of a part shall be defined by one more than one dimension in any direction.
- 3.) Full , coons: This is when the cutting plane passes through the object. It should be noted that all visible edges behind the plane must be shown or the view will be incomplete. Hidden details, lines however are not shown on the sectional view unless needed to describe the object completely.

half section: symmetrical object may be shown to advantage by half sections, that is with one half drawn in section and the other as an outside view.

4) By arrow terminator used to point to an edge of an object

By dot terminator used to point to a face

By architectural can be used for referring to multiple parallel edges.

5) 5:1 It means the original measurement is 5 times as small

1:10 It means the original measurement is 10 times bigger

6.) Diameter = ϕ

Radius = R

Square = S Q

Spherical radius = S R

7) An orthographic projection is a means of representing three-dimensional objects in two dimensions

8) The projection of an object is called an orthographic projection when an object is drawn in form of 3D from different directions usually drawn on first or third angle

Q. First angle projection: This is a method of creating a 2D drawing of a 3D object.
Third angle projection: This is a method of orthographic projection which is a technique in portraying a 3D design using a series of 2D views

First t

Thi

1.) B

2.) B

3.) C

4.) B

5.) A

6.) B

7.) C

8.) B

9.) A

10.) A

11.) C

12.) A

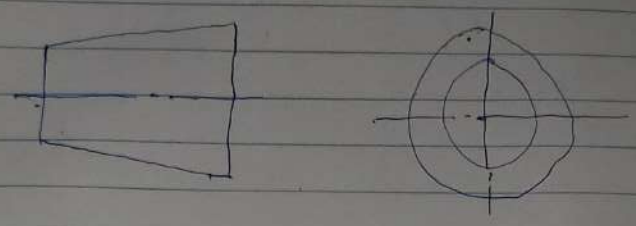
13.) B

14.) C

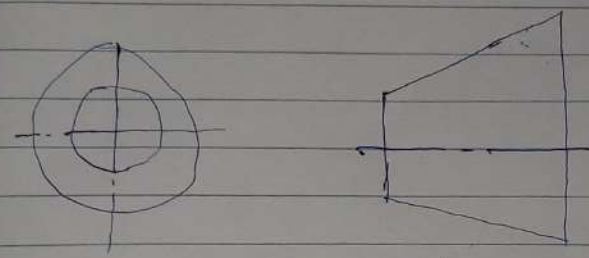
15.) B

it may be shown
 views, that is
 could see the
 at to an edge of an item
 face
 for referring to
 measurement is

First angle projection symbol



Third angle projection symbol



Objective

measurement is 10

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