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## **MECHANICAL/PRODUCTION/CIVIL AUTOMOBILE/AERONAUTICAL ENGINEERING**

# **INTERVIEW QUESTIONS & ANSWERS**

**Basic – Advance Level**

### **Syllabus Content - 1**

- ✓ **Engineering Drawing**
- ✓ **Machine Drawing**
- ✓ **Engineering Mechanics**
- ✓ **Strength of Materials**

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Prepared by:

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ME Mechanical Engineer

Osmania University College of Engineering



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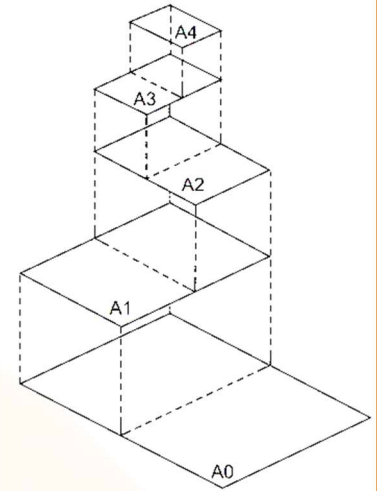
# Interview Questions & Answers

## 1. Name Various Drawing Sheet Sizes?

Engineering drawings are prepared on drawing sheets of standard sizes.

The successive format sizes are obtained either by halving along the length or doubling along the width, the areas being in the ratio 1:2.

| Sheet Designation | Trimmed Size (mm) | Untrimmed Size (mm) |
|-------------------|-------------------|---------------------|
| A0                | <b>841 x 1189</b> | 880 x 1230          |
| A1                | <b>594 x 841</b>  | 625 x 880           |
| A2                | <b>420 x 594</b>  | 450 x 625           |
| A3                | <b>297 x 420</b>  | 330 x 450           |
| A4                | <b>210 x 297</b>  | 240 x 330           |
| A5                | <b>148 x 210</b>  | 165 x 240           |

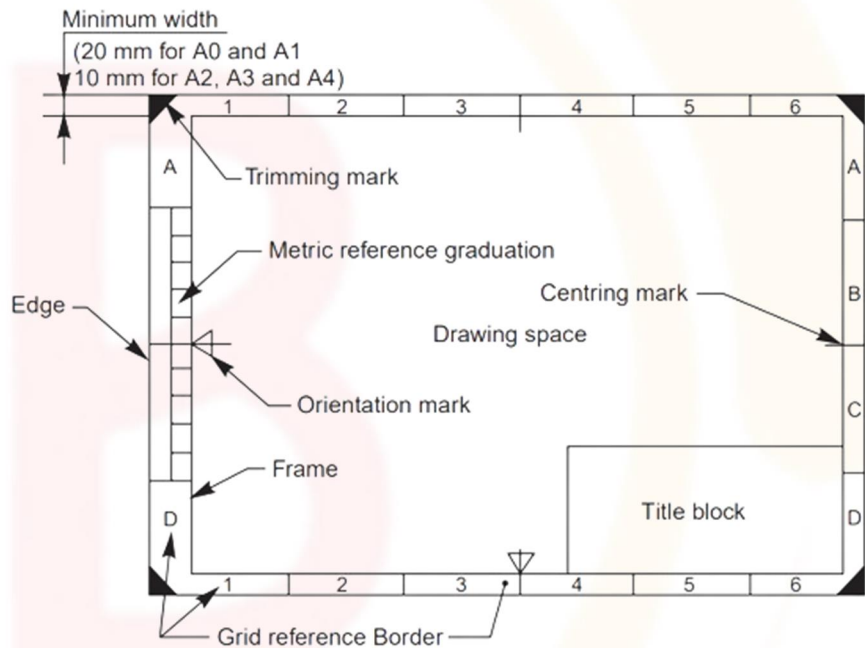


**Note:** These are also referred as **ISO-A Series** drawing sizes.

## 2. What information Drawing Sheet consists of?

Typical drawing sheet show the following information:

- Title Block
- Drawing Space
- Frame
- Grid Reference Borders
- Centering mark
- Metric reference graduation
- Orientation Mark
- Trimming Mark
- Others



## 3. What are elements of Title Block? Where title block is located in the drawing?

Typical title block show the following information:

- Title of the drawing
- Drawing number
- Scale
- Method of projection
- Name of the firm
- Checked and approved
- Others
- Title block lie in Bottom Right Hand Corner of drawing

|            |      |             |                    |           |        |
|------------|------|-------------|--------------------|-----------|--------|
|            | NAME | DATE        | MATERIAL           | TOLERANCE | FINISH |
| DRN        |      |             |                    |           |        |
| CHD        |      |             |                    |           |        |
| APPD       |      |             | TITLE              |           |        |
| PROJECTION |      | LEGAL OWNER | TITLE              |           |        |
| SCALE      |      |             | IDENTIFICATION No. |           |        |

**Note:** According to Bureau of Indian Standards, **SP-46:1998**, "For Engineering Drawing Practice First angle projection is preferred". Size of Typical Title Block **170mm x 65mm**









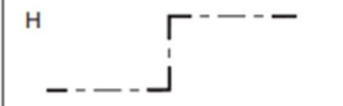


## Interview Questions & Answers

### 4. What is scale? What are the designation of scales used in the drawing?

Scale is the ratio of the linear dimension of an element of an object as represented in the drawing, to the real linear dimension of the same element of the object itself.

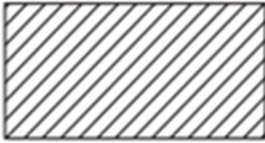
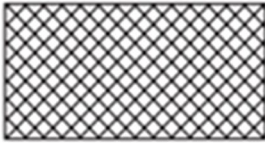

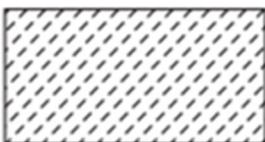
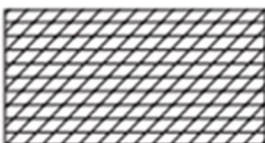

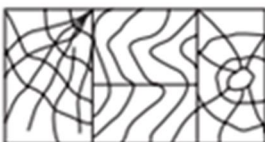
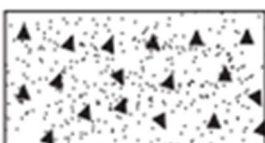
| Category        | Recommended Scales |        |         |
|-----------------|--------------------|--------|---------|
| Enlarged Scale  | 50:1               | 20:1   | 10:1    |
|                 | 5:1                | 2:1    |         |
| Full Size Scale | 1:1                |        |         |
| Reduced Scale   | 1:2                | 1:5    | 1:10    |
|                 | 1:20               | 1:50   | 1:100   |
|                 | 1:200              | 1:500  | 1:1000  |
|                 | 1:2000             | 1:5000 | 1:10000 |

### 5. List of different types of line used in Engineering drawing?

| Line  | Description  | General Applications  |
|---|--|---|
| A    | Continuous thick                                   | Visible Outlines  |
| B    | Continuous thin<br>(Straight or Curved)            | B1 Imaginary lines of Intersection<br>B2 Dimension Lines<br>B3 Projection lines<br>B4 Leader lines<br>B5 Hatching lines<br>B6 Outlines of revolved sections in place<br>B7 Short centre lines |
| C  | Continuous thin,<br>(free – hand)                  | C1 Limits of partial or interrupted views and sections, if the limit is not a chain thin  |
| D  | Continuous thin,<br>(straight with zigzags)        | D1 This zig zag line acts like a break view with an interpretation of the part is continuing  |
| E  | Dashed thick                                       | E1 Hidden outlines  |
| G  | Chain thin   | G1 Centre lines<br>G2 Lines of symmetry<br>G3 Trajectories  |
| H  | Chain thin, thick at ends and changes of direction | H1 Cutting planes<br>(Section lines)  |
| J  | Chain thick  | J1 Indication of lines or surfaces to which a special requirement applies   |
| K  | Chain thin, double-dashed                          | K1 Outlines of adjacent parts<br>K2 Alternative and extreme position of movable parts<br>K3 Centroidal lines  |



6. Show the conventional representation of various materials?

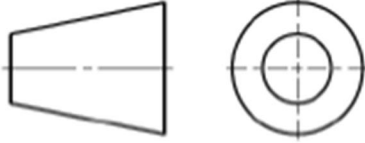
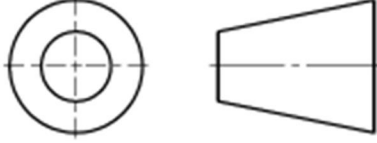
| Type                            | Convention  | Material   |
|---------------------------------|---|--|
| Metals                          |    | Steel, Cast Iron, Copper and its Alloys, Aluminium and its Alloys etc.   |
|                                 |    | Lead, Zinc, Tin, White-metal, etc.   |
| Glass                           |    | Glass  |
| Packing and Insulating Material |    | Porcelain, Stoneware, Marble, Slate, etc.  |
|                                 |   | Asbestos, Fibre, Felt, Synthetic resin products, Paper, Cork, Rubber, Wax, Insulating and Filling materials etc. |
| Liquids                         |  | Water, Oil, Petrol, Kerosene, etc.   |
| Wood                            |  | Wood, Plywood, etc.  |
| Concrete                        |  | A mixture of Cement, Sand and Gravel.  |

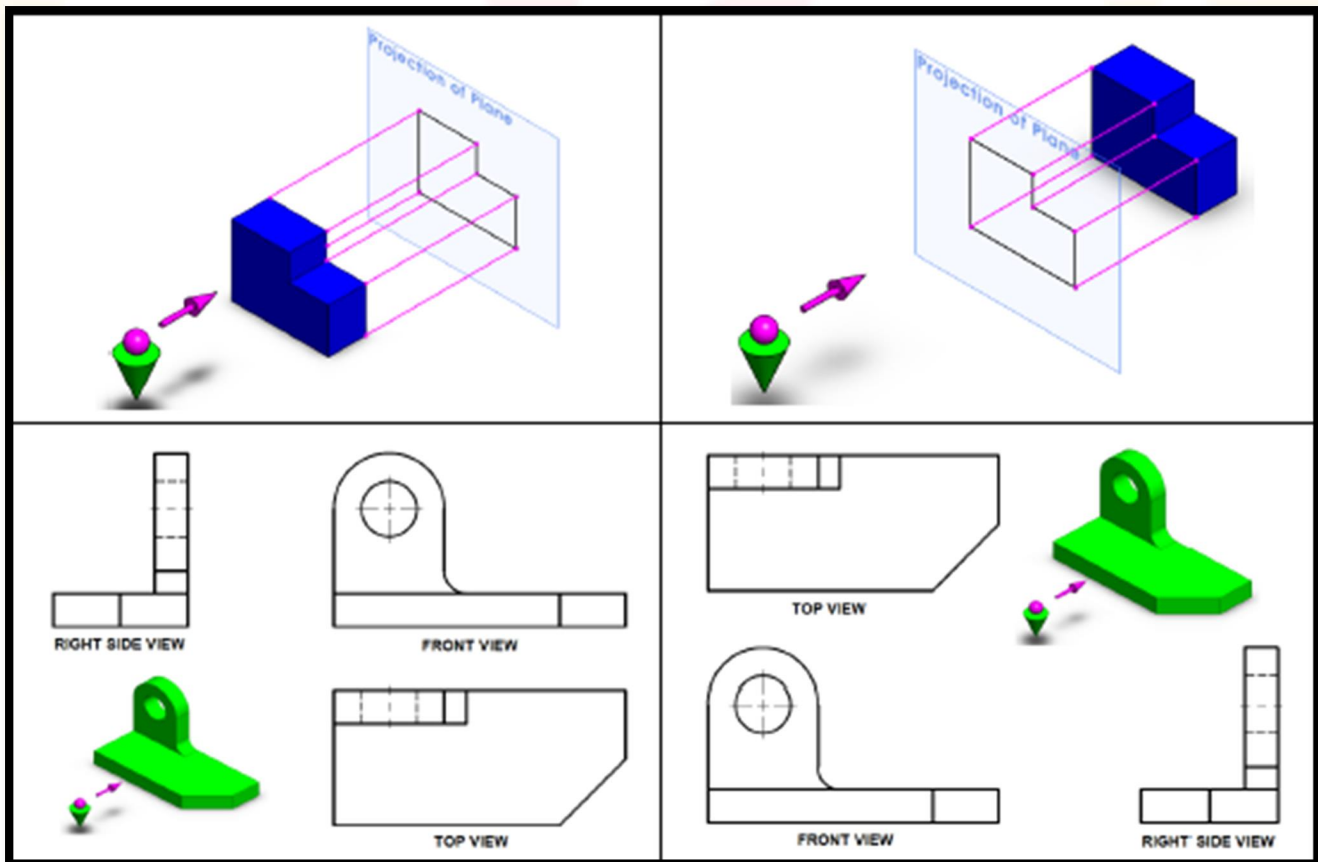
7. What are the various methods of Arrangement of Dimension?

- Chain Dimensions
- Parallel Dimensions
- Super-imposed Running Dimensions
- Combined Dimensions
- Co-ordinate Dimensions



## 8. What is First angle projection & Third angle projection? How to represent Views?

| First Angle Projection   | Third Angle Projection  |
|--|---|
| The object is imagined to be in first quadrant.  | The object is imagined to be in third quadrant.   |
| The object is lies between the observer and plane of projection.   | The plane of projection lies between the observer and object.   |
| The plane of projection is assumed to be non transparent.  | The plane of projection is assumed to be transparent.   |
| When view are drawn in their relative position Top view comes below Front view, Right side view drawn to the left side of elevation. | When view are drawn in their relative position Top view comes above Front view, Right side view drawn to the right side of elevation. |
|  <p style="text-align: center;">SYMBOL</p>          |  <p style="text-align: center;">SYMBOL</p>          |



## 9. What are the various types of Views placed in the drawing?

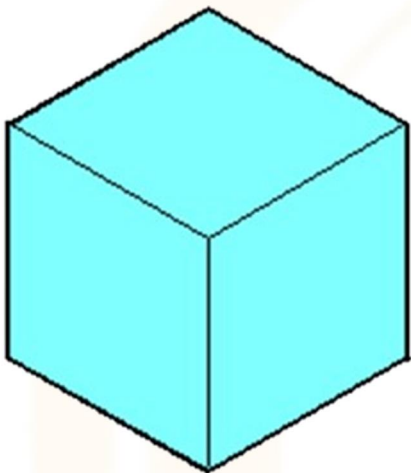
**Isometric View:** A 3D object that eliminates the distortion of shape created by true perspective

**Perspective View:** Perspective is the way that one looks at something.

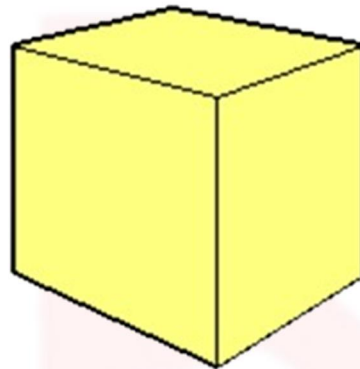
**Auxiliary View:** The representation of View Parallel to the eye is considered as the Front View.

**Section View:** A sectional view represents the part of an object remaining after a portion is assumed to have been cut and removed

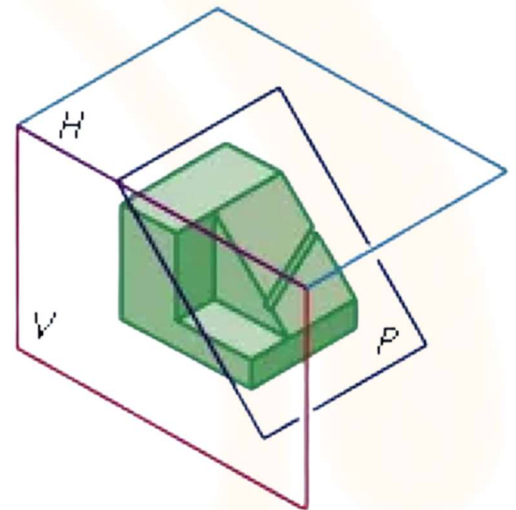
**Detailed View:** A detail view is a partial generated view that shows only what is necessary in the clear description of the object.



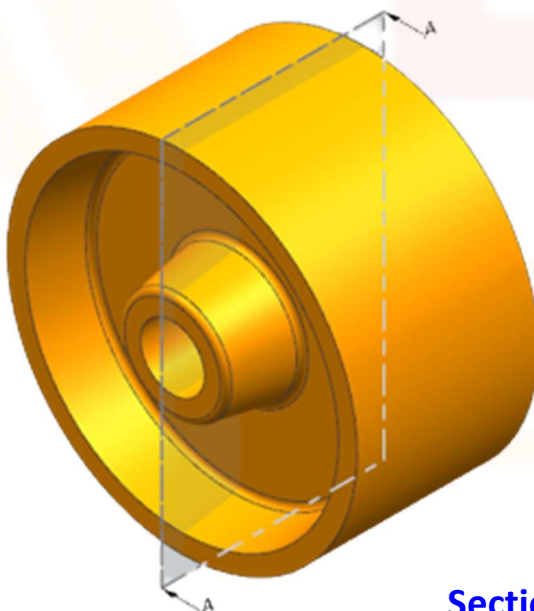
**Isometric View**



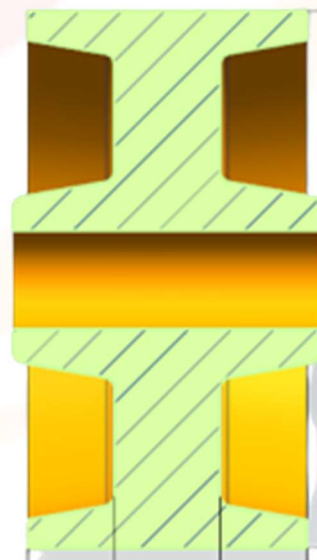
**Perspective View**

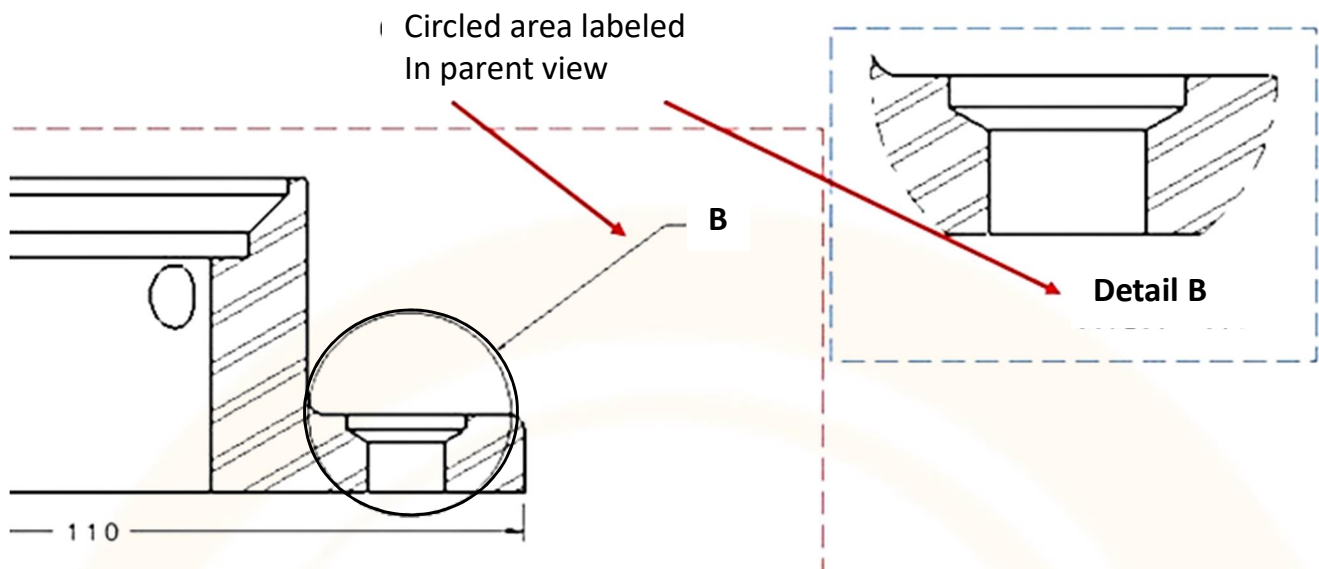


**Auxiliary View**



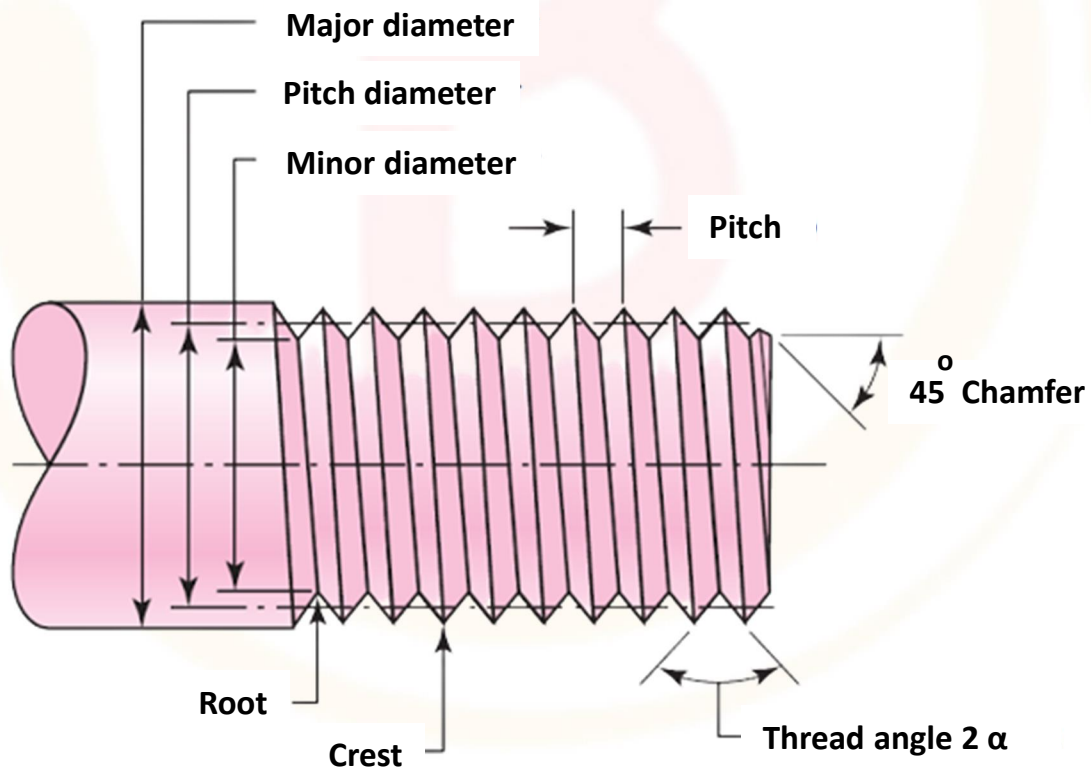
**Section View**





### Detailed View

### 10. Represent screw thread nomenclature



### Terminology of Screw Threads





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