

Dos' and Don'ts' in the University Exam

Dear Students,

First of all I wish to thank all my colleagues for sharing their thoughts on this topic and helping me to write such a thing.

Free Hand Sketching

S.No	Do s	Don'ts
1.	Name the Views	
2.	Placed in proper position	Don't use scale for free hand sketching.
3.	If arrow head is not given in the drawing , most informative side should be taken as F.V	
4.	Ensure top view properly with out confusing with other views.	
5.	Invisible lines should be drawn using dotted line.	

Conic sections and Special Curves

S.No	Do s	Don'ts
1	Eccentricity value should be converted into fraction.	Avoid using compass for drawing circular invaluable.
2	Eccentricity value should be noted at the curve.	
3	Use proper scaling while drawing conic sections for larger values.	
4	Indicate tangent & normal properly.	
5	Mark the axis of centre for epicycloids & Hypocycloid.	
6	Care should be taken while numbering the generating circle for special Curves.	

Projection of Points, Lines and Planes

<i>S.No</i>	Do s	Don'ts
1.	Use proper notation Front View – lower case letters with (a') top view – lower case letters.	Avoid capital letters in Front View & Top view, Avoid using projectors as a dimensioning line
2.	Lines $\Theta + \emptyset = 90^\circ$ both front view & top view in Perpendicular.	Avoid drawing the projectors in thick line.
3.	Final projections should be thick line	
3.	Write down the TL, $\Theta, \emptyset, \alpha, \beta$ separately.	
4.	Ensure Angle of inclination properly.	
5.	Planes Take surface inclination first.	

Projections of Solids

<i>S.No</i>	Do s	Don'ts
1.	Ensure whether the question is Prism or Pyramid	Don't extend the projectors from the true shape beyond the reference line.
2.	For pyramid in the true shape draw the slant edges.	
3.	Mark the axis & dotted line properly.	Don't forget to draw the boundary of any view.
4.	Ensure resting part of solid properly.	Don't draw the axis line as dotted line.
5.	Ensure given inclinations are marked properly.	
6.	Make sure that the axis & base edge is always perpendicular to each other.	
7.	While getting the final view, name the intersection of projector properly.	
8.	Name all the points properly.	

Section of Solids

<i>S.No</i>	Do s	Don'ts
1.	Proper location of cutting planes	Avoid using dotted line for sectional line.
2.	Make double sure the section plane inclination with respect to reference line.	Avoid using dark line while hatching the true shape & sectional view.
3.	Draw the section plane line properly (for pyramid & cone).	
4.	Make sure that point of intersection of section plane and axis/edges coincide the axis transferred properly.	
5.	True shape should be drawn using perpendicular projectors from the cutting plane.	

Development of surface

<i>S.No</i>	Do s	Don'ts
1.	Use capital letters while drawing developed surfaces.	Avoid drawing thick lines while developing cylinder & cone.
2.	Draw smooth curve for joining points in truncated cone & cylinder.	Avoid joining the points using free hand curve.(For truncated prism and pyramid)
3.	For pyramid draw the base edges	Don't draw the base edges for cone.
4.	Draw the removed portions using thin lines.	

Isometric view

<i>S.No</i>	Do s	Don'ts
1	Use only co ordinate method for pyramid & cones.	Don't draw the box using hick lines.

2

Ensure circle is drawn using 4 Centre method with compass.

Don't forget to add & small note.

"For the sake of convenience Isometric view is drawn "Since Isometric length = $0.816 \times \text{True length}$ ".

Perspective view

<i>S.No</i>	Do s	Don'ts
1.	Use capital letters for final view only.	Don't dimensioning the values with in the visual ray

General Points

1. Answer the questions familiar to you first.
2. Don't forget to write the proper question number.
3. Even if correct solution with out question number carries zero mark.
4. Differentiate thick line, thin line, dotted line, Axis line, section plane line properly using appropriate pencil.
5. Avoid shuffling of the given data.
6. 6. Write all dimensions are in mm & scale ratio if applicable.
7. Don't attempt to give details beyond the questions.
8. Make sure that all the given data are dimensioned in your solution.
9. Manage the time properly (for eg: 30 minutes per solution)
10. Use the last 30 minutes to verify all the above points.

Hope you all follow the above points and will secure good marks.