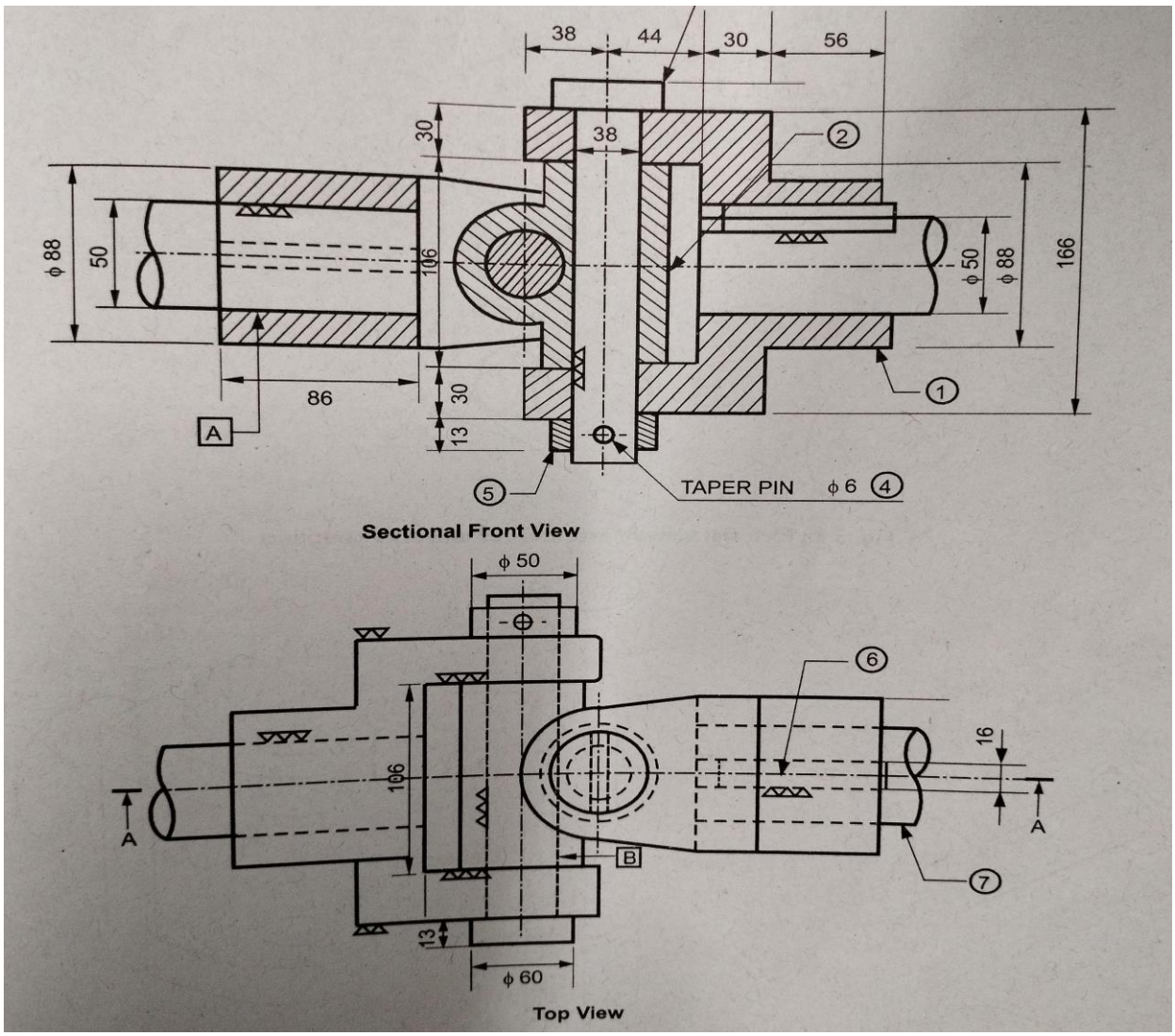
TOPIC -4 PRODUCTION DRAWING

1. Define Allowance, Clearance, Interference and Deviation.
2. What is fit and its classification?
3. The shaft has a size of $35^{+0.02,\ -0.02}$ and a hole has size of $35^{+0.02}$. Find the allowance to determine type of fit between them.
4. Draw the following geometric tolerance and characteristics
   a) Cylindricity b) Profile of any surface c) Position d) Symmetry
5. Draw conventional representation of following welding symbols.
   a) Single V flat butt weld b) Convex double V butt weld c) Convex fillet weld d) Single J Butt weld
6. Draw any 4 direction of lay with surface texture.
7. Explain unilateral and bilateral tolerance with sketch.
8. Describe maximum material condition and minimum material condition.
9. Write down the indication of machining symbols with all parameters
10. Define hole basis system and Shaft basis system.

Topic 5 - Assembly to Details

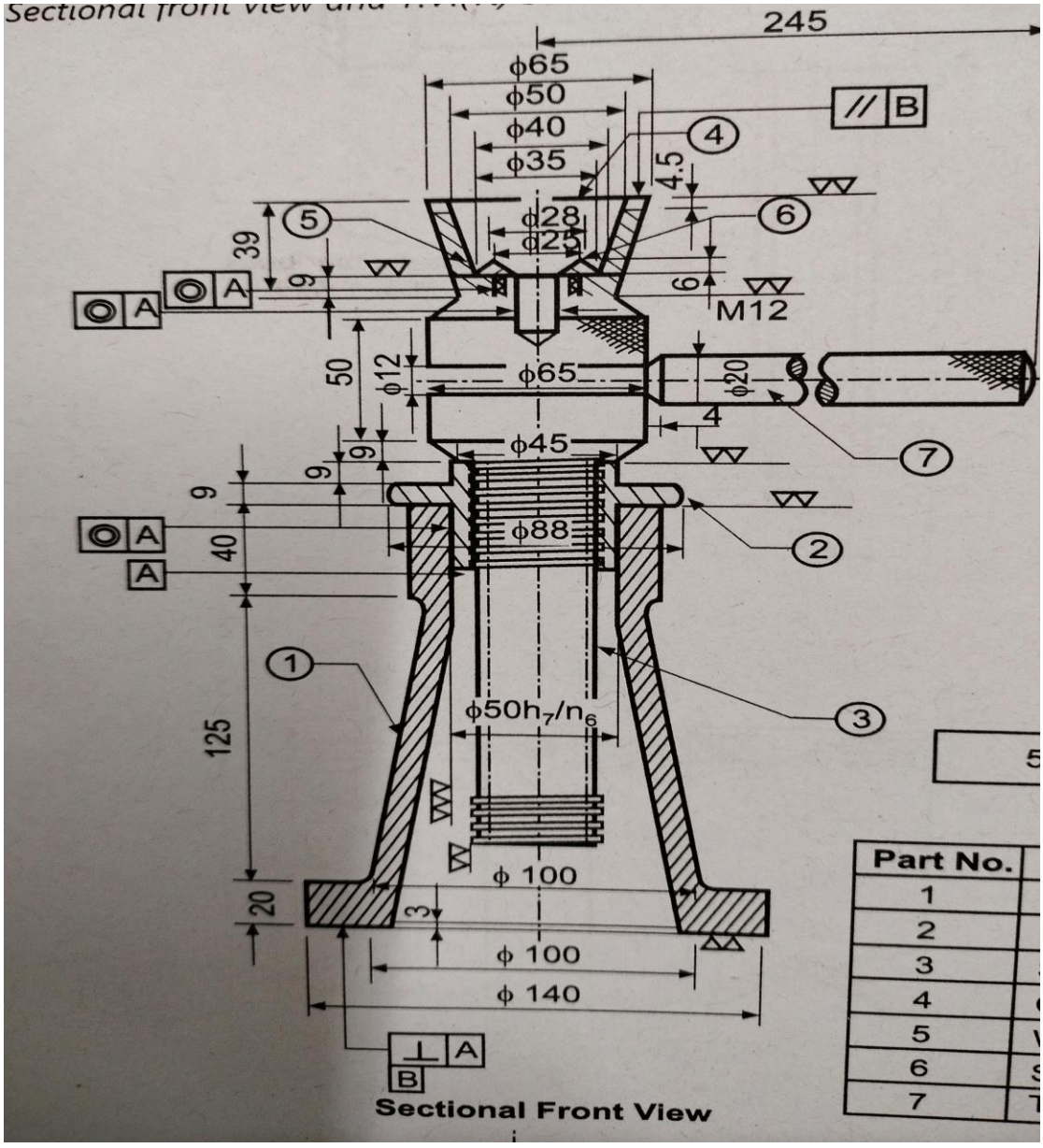
1) Figure Shows assembly of Universal Coupling Draw the following Details

   a) Central Block Sec FV and TV b) Fork Sect FV and TV



2) Figure Shows assembly of Screw Jack, Draw the following Details

a) Body Sec FV b) Bush FV C) Cup Sect FV and TV d) Screw FV



3) Figure Shows assembly Lathe Tool Post, Draw the following Details

a) Post Sectional FV and TV b) Block sect. FV and TV

c) Screw FV d) Ring FV and TV