

**MECHANICAL ENGINEERING DRAWING-II**  
**4<sup>th</sup> Exam/MECH/9453/Jan'2022**  
**(FOR BATCH 2018 ONWARDS)**

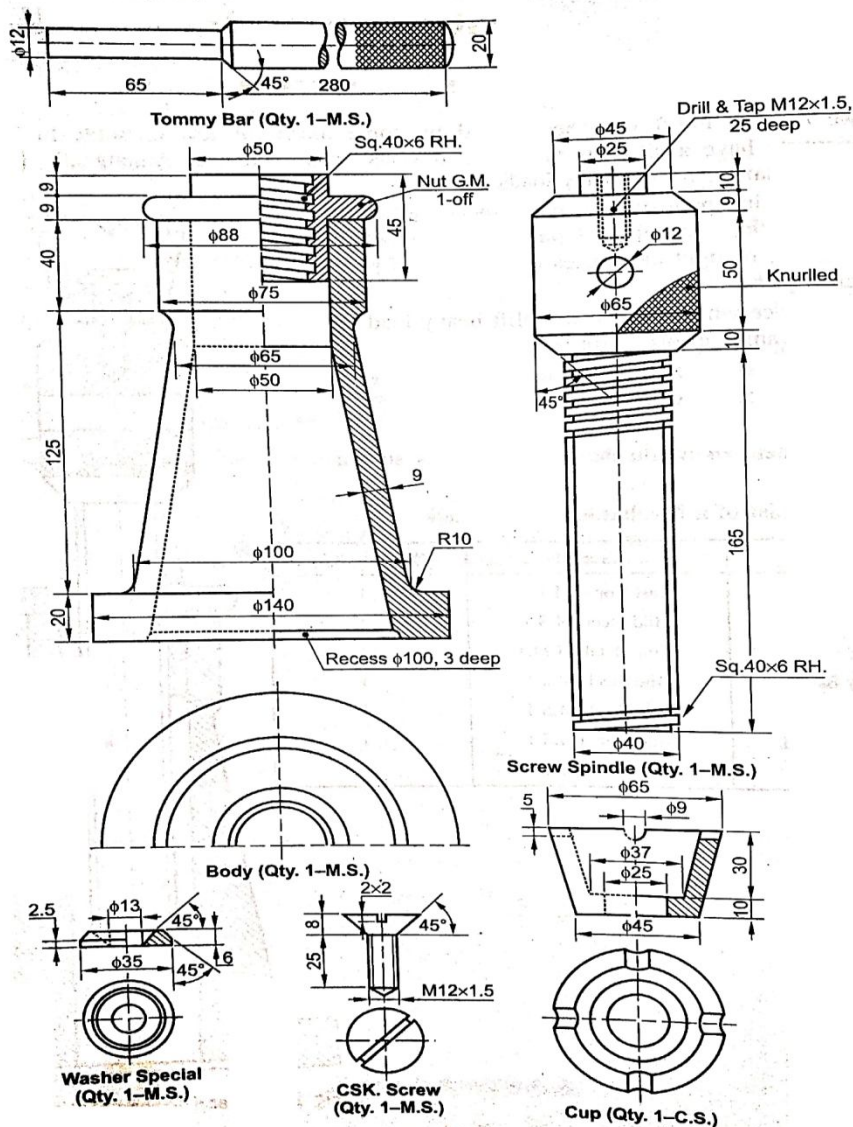
**Duration: 1.15Hrs.**

**M.Marks:25**

**Note: Attempt any one question.**

**1x25=25**

- Q1.** Draw the profile of involute teeth for a spur gear having 25 teeth and a module pitch equal to 10 mm, assuming a pressure angle of 20°.
- Q2.** Draw the profile of a cam with following data as radius is 40mm and lift of follower is 25mm. The follower is with S.H.M. during 90° of cam rotation, and then remains at rest 90° and return to the starting point during next 180° of cam rotation with uniformly accelerated and retarded motion, follower is knife edged.
- Q3.** Draw freehand sketch (Front and side view) of a crankshaft and flywheel assembly.
- Q4.** Figure 1 shows the details of Mechanical screw jack. Assemble the parts and draw the following views:  
a) Right half sectional front view      b) Top view



**Figure 1**