

The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Mechanical Engineering



026

Study Programme : Bachelor of Science Honours in Engineering
Name of the Examination : Final Examination
Course Code and Title : DMX4201 Advanced Engineering Design Graphics
Academic Year : 2024/25
Date : 28th January 2026
Time : 13:30-16:30h
Duration : 3 hours

REGISTRATION NO:

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General Instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **Four (4)** pages.
3. Save drawings periodically to prevent data loss.
4. Save the answers as **Question number followed by the registration number** in the pen drive provided by the supervisor / invigilator **[EX: Q2_219233455]**.
5. Drawings saved in the pen drive are considered as the final answer.
6. **Assume any missing dimensions.**

Detailed drawings for the components of the **Pulley Assembly** are shown in Figure 1 and Figure 2 as listed below in Table 1.

Item No.	Part	Figure
1	Support	Figure -01
2	Pulley	Figure -02
3	Cap	Figure -02
4	Bush	Figure -02
5	Pin	Figure -02

Table 1

1. Construct the 3D models of the parts listed in Table 1 (Item No. 1,2,3,4 and 5).

[50 marks]

2. Assemble the components placing them correctly as shown in Figure 3.

[20 marks]

3. Generate the following views from the assembly to the scale of full-size in first angle projection.

[30 marks]

- Sectional Front Elevation on A-A
- End Elevation projected to the right of view (a)
- Plan
- Isometric view

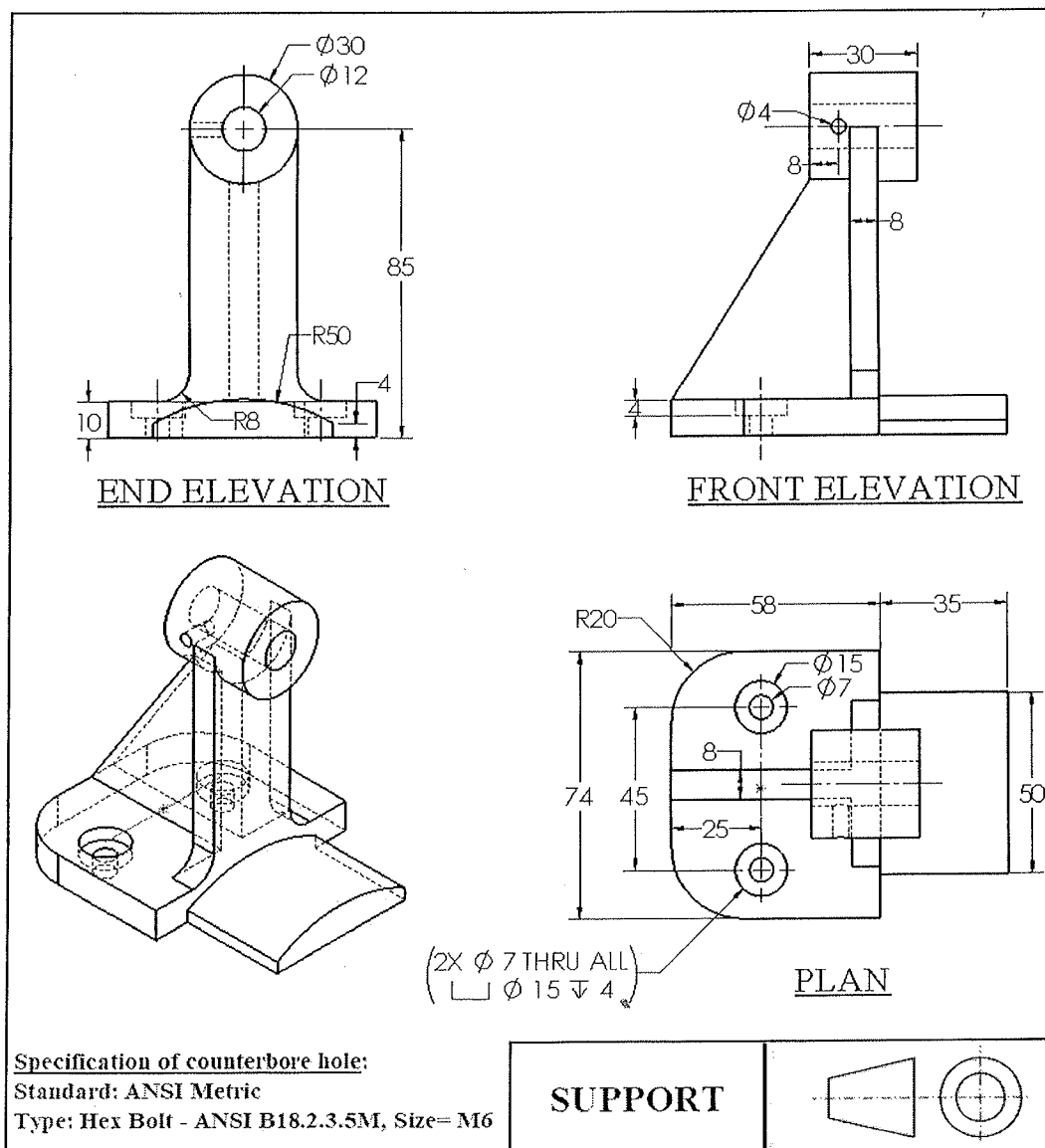


Figure 1

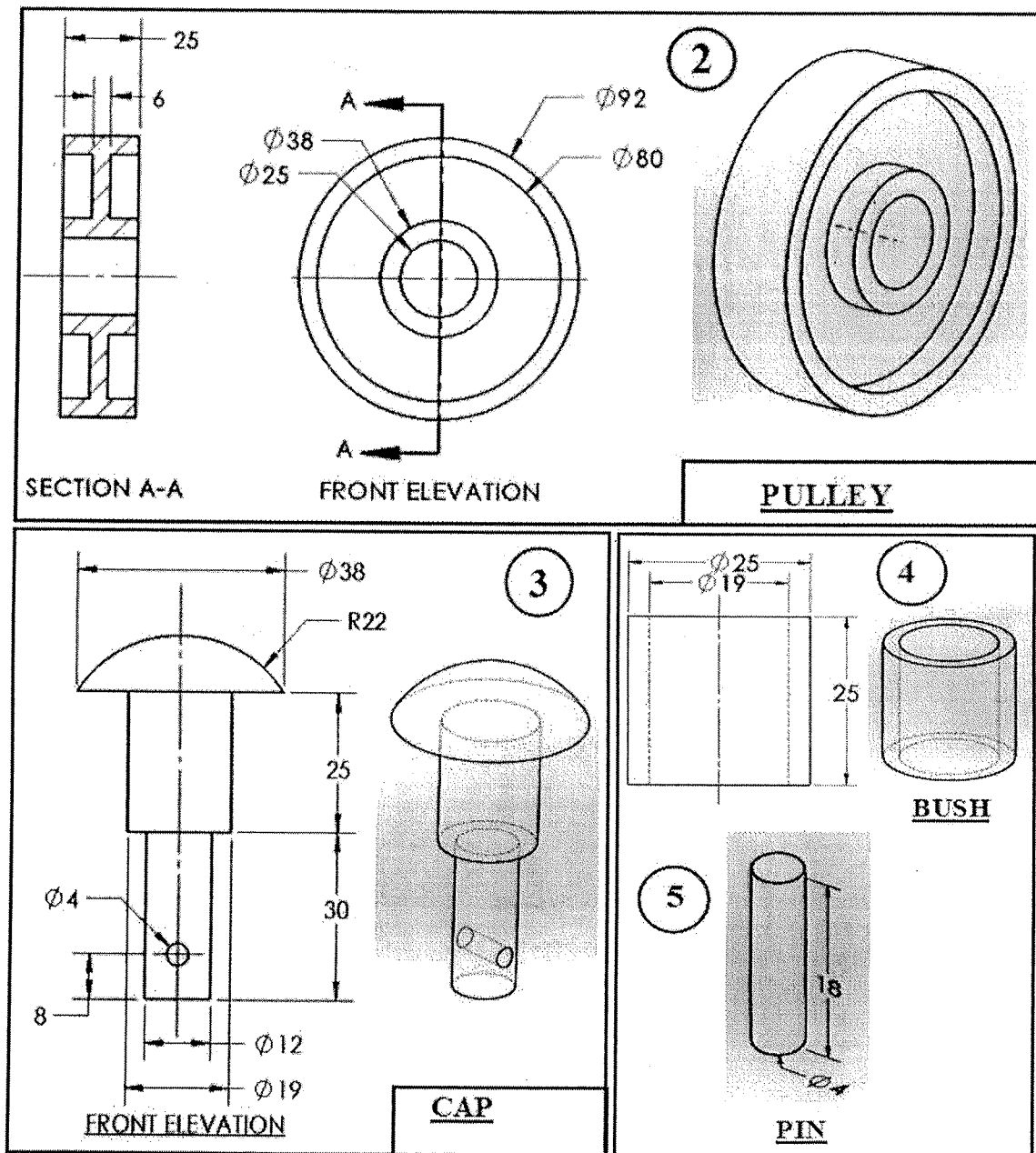


Figure 2

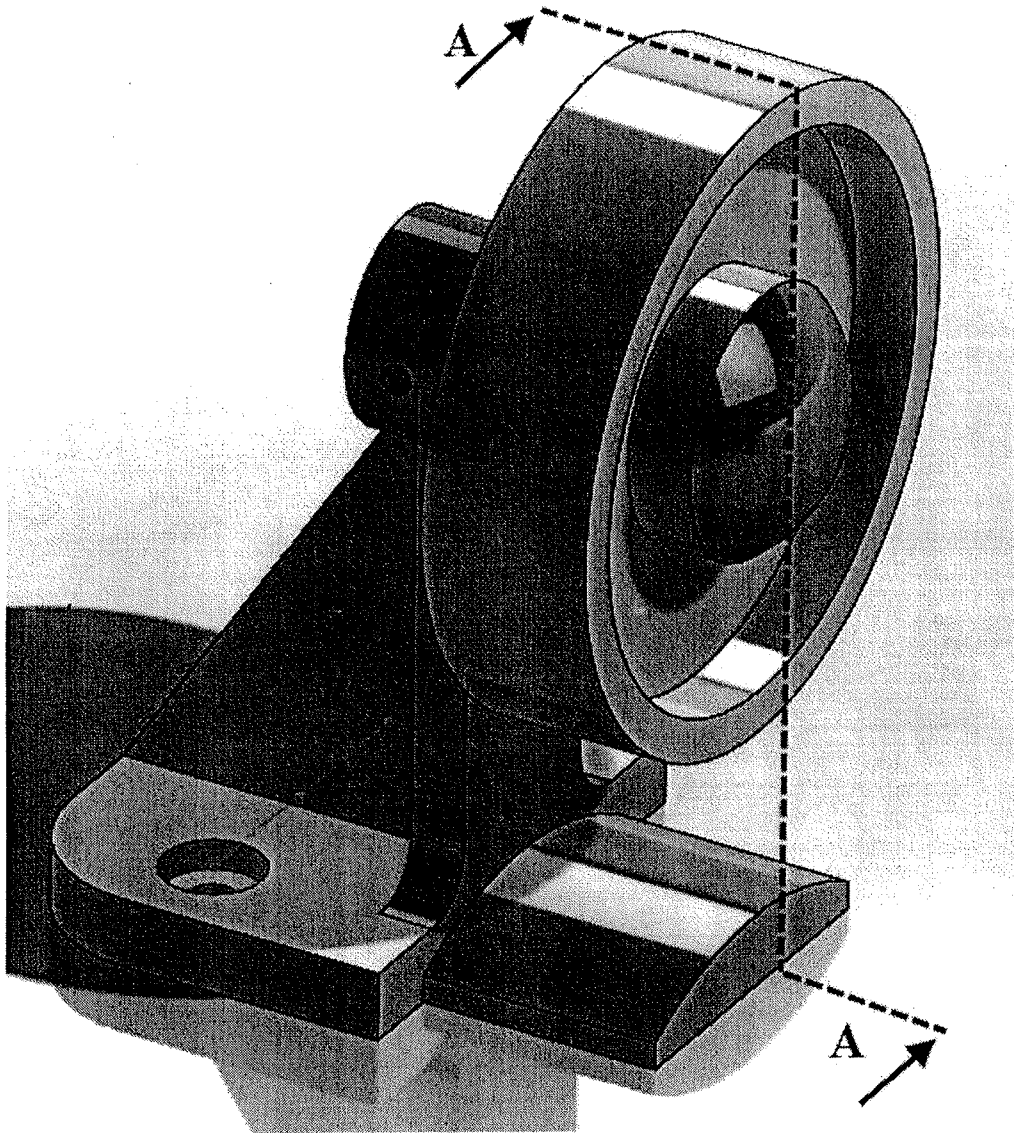


Figure 3

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