

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



Study Programme	:Bachelor of Technology Honours in Engineering
Name of the Examination	:Final Examination
Course Code and Title	: <b>DMK3589 / MEK3289 – Computer Aided Drafting</b>
Academic Year	:2019/2020
Date	:24 <sup>th</sup> July 2020
Time	:9.30 hrs.-12.30 hrs.
Duration	:3 hours

### General Instructions

1. Read all instruction carefully before answering the questions.
2. Clarify from the supervisor / Invigilator in your examination hall if you have any doubts.
3. Draw the standard cage and fill the title cage clearly for answers.
4. Save drawings periodically to prevent data loss.
5. Do not write your name.
6. **Write down your index number in the title cage.**
7. Save and name your final drawing by your index number in the pen drive given by the supervisor / Invigilator.
8. Drawings saved in the pen drive are considered as the final answer.
9. **Assume any missing dimensions.**

**Q1. Figure 01** shows orthographic views of an object in the **first angle projection**. Draw the following views in the first angle projection to a scale of full size using **AutoCAD** software.

- (a) **Sectional Front Elevation on X-X**
- (b) **Plan**
- (c) **End Elevation** projected to right of the Front Elevation
- (d) Construct a dimension style and indicate major dimensions.

**Q2.** Draw the given **Figure 02** and insert dimensions.

**Note:-**

- All dimensions are in millimetres and the drawings are not in the actual scale.
- Prepare your answer script in a layout on A2 sized paper.
- **Marks are given for the approach, organization of the drawing, overall views, setting of dimension styles, titles and the Standard cage.**

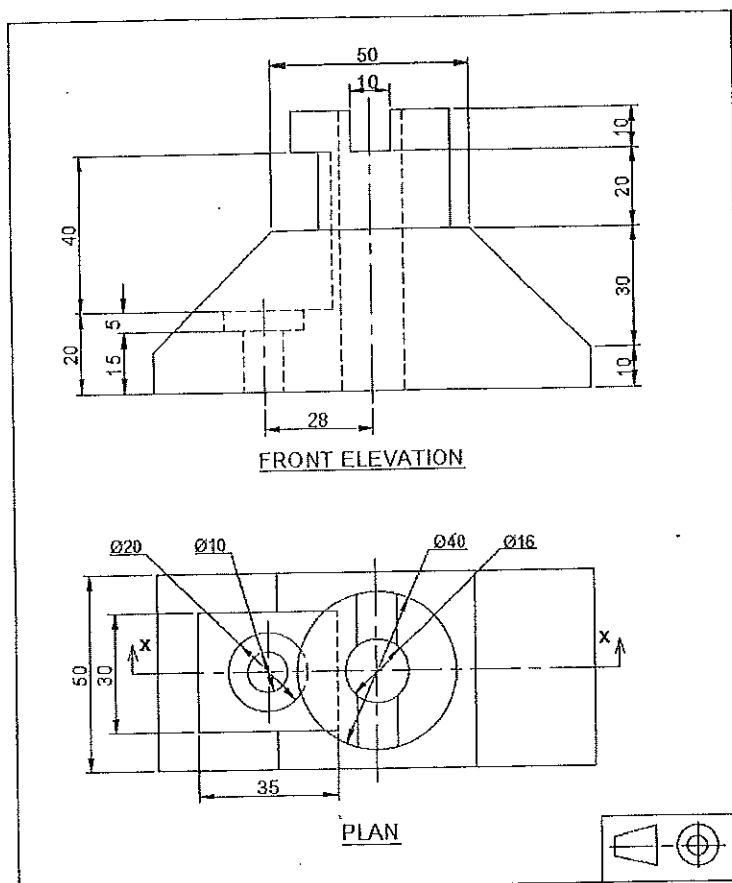
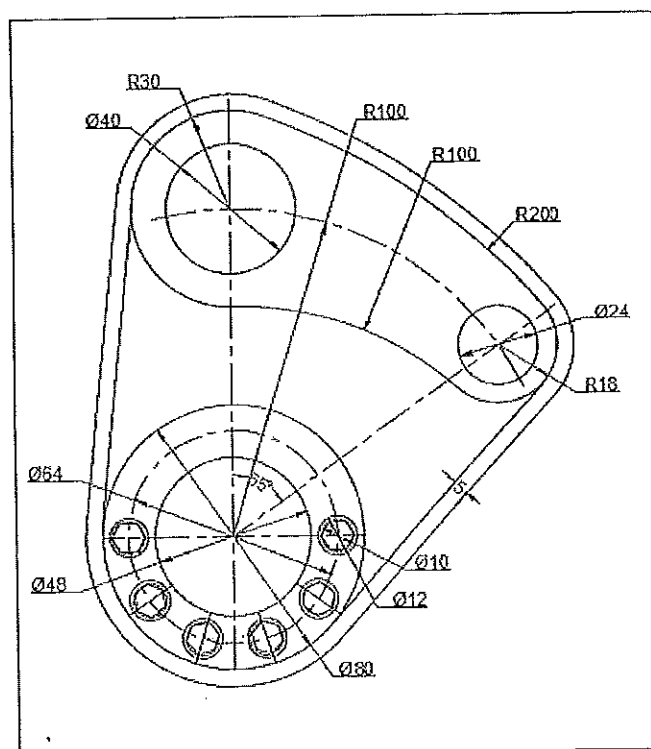


Figure 01



**Figure 02**

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> SCALE </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">5</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">7</div> <div style="border: 1px solid black; padding: 5px;">TITLE</div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">PRINT THE MAIN SCALE (Fig. 1.2)</p> </div> <div style="width: 50%;"> <p style="text-align: center;">PRINT YOUR COURSE CODE (Eg. MEK3289/MEK5201/MEX3234)</p> <p style="text-align: center;">GET STAMPED AND FILLED BY THE LECTURER</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p style="text-align: center;">DRAW THE APPROPRIATE SYMBOL FOR ORTHOGRAPHIC PROJECTION OTHERWISE LEAVE IT EMPTY</p> <p style="text-align: center;">PRINT THE MAIN TITLE AS GIVEN IN ASSIGNMENT / QUESTION</p> </div> <div style="width: 50%;"> <p style="text-align: center;">PRINT YOUR INDEX NUMBER</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p style="text-align: center;">DRAWING AREA 559 x 363 mm</p> </div> <div style="width: 50%;"> <p style="text-align: center;">PAPER SIZE 594 x 420 mm</p> </div> </div>
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35

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60

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INDEX NO.

COURSE

3

CORRECTED

