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**073206T4BLD**

**BUILDING TECHNOLOGY LEVEL 6**

**CON/OS/BUT/CC/02/6** Printed By: Technical And Vocational College **Prepare and**

**Interpret Technical Drawings November/December 2025**

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**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)**

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**ASSESSMENT**

**TIME: 3 HOURS**

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**INSTRUCTIONS TO CANDIDATE**

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **Alons** in section **A** and **ANY THREE (3) questions** in section **B**.
3. **Marks for each question are indicated in the brackets**
4. Candidates are provided with a separate answer book let
5. Do not write on the question paper.

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**This paper consists of SIX (6) printed pages**

**Candidate should check the question paper to ascertain that all pages are printed as  
indicated and that no questions are missing.**

## SECTION A (40 MARKS)

*Answer ALL the questions in this section*

1. Print the following wolle letters (4 Marks)

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Quick brown fox jumps over the lazy dog

2. Define the following terms in technical drawing: (4 Marks)

a. Scale.

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b. Representative fraction

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3. State three general safety measures when handling drawing instruments. (3 Marks)

4. There are different types of CADs used in construction (3 Marks)

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software.

5. Differentiate between isometric and oblique drawings. (4 Marks)

6. Construct a perpendicular bisector of a 60 mm line. (4 Marks)

7. With the aid of sketches differentiate between dashed and chain line used in technical drawing. (6 Marks)

8. Construct a square of diagonals 80 mm. (4 Marks)

9. Make a try square. (4 Marks)

10. Symbols are used in drawings to represent different elements. Draw the conventional symbols

of the following elements (4 Marks)

a. Mass concrete

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b. Hardcore

**SECTION B (60 MARKS)***Answer any THREE questions in this section*

11.

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a. A wheel of  $2\text{m}$  in diameter has 12 spokes connecting the rim and the hub. The wheel is rotating in anticlockwise direction at 30 revolution per minute. A particle of dust travels from the centre to the rim along the spokes with uniform velocity in 2 seconds.

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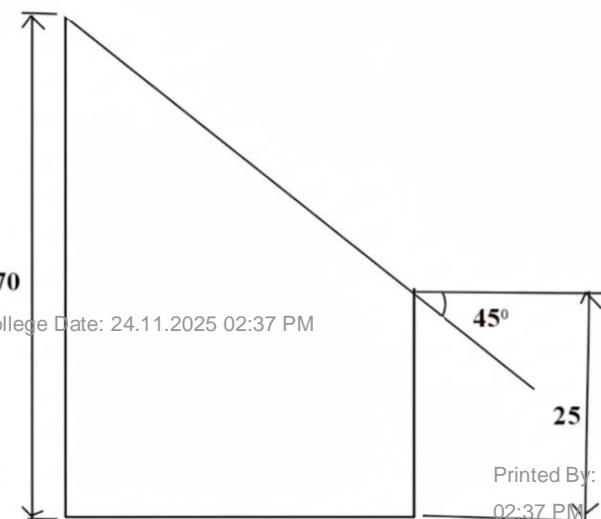
Trace the archimedean spiral of the dust particle.

(10 Marks)

b. Construct the surface development of the bottom covered truncated cylinder below. The diameter is 56mm.

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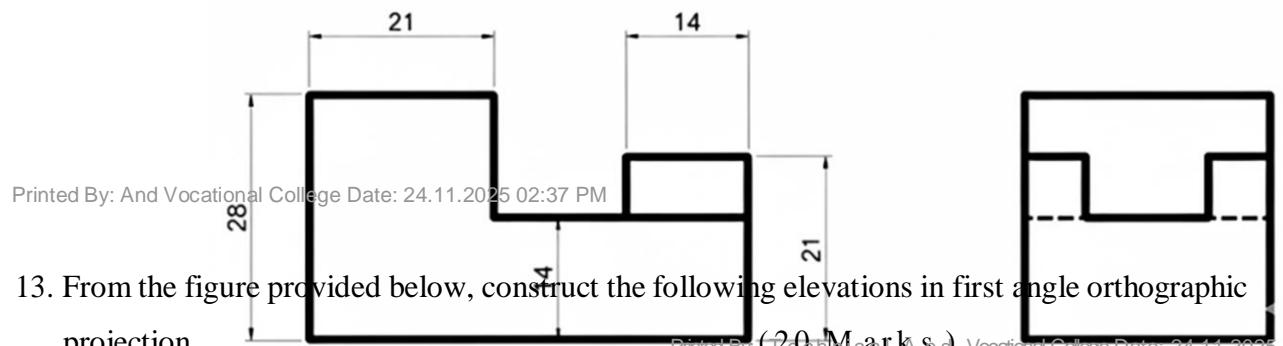
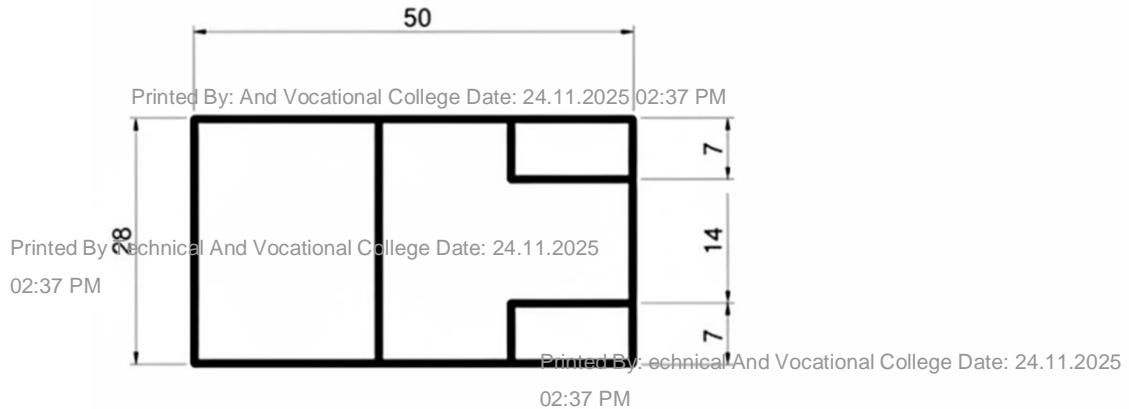
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12. Construct an isometric drawing from the orthographic projection provided below.

(20 Marks)

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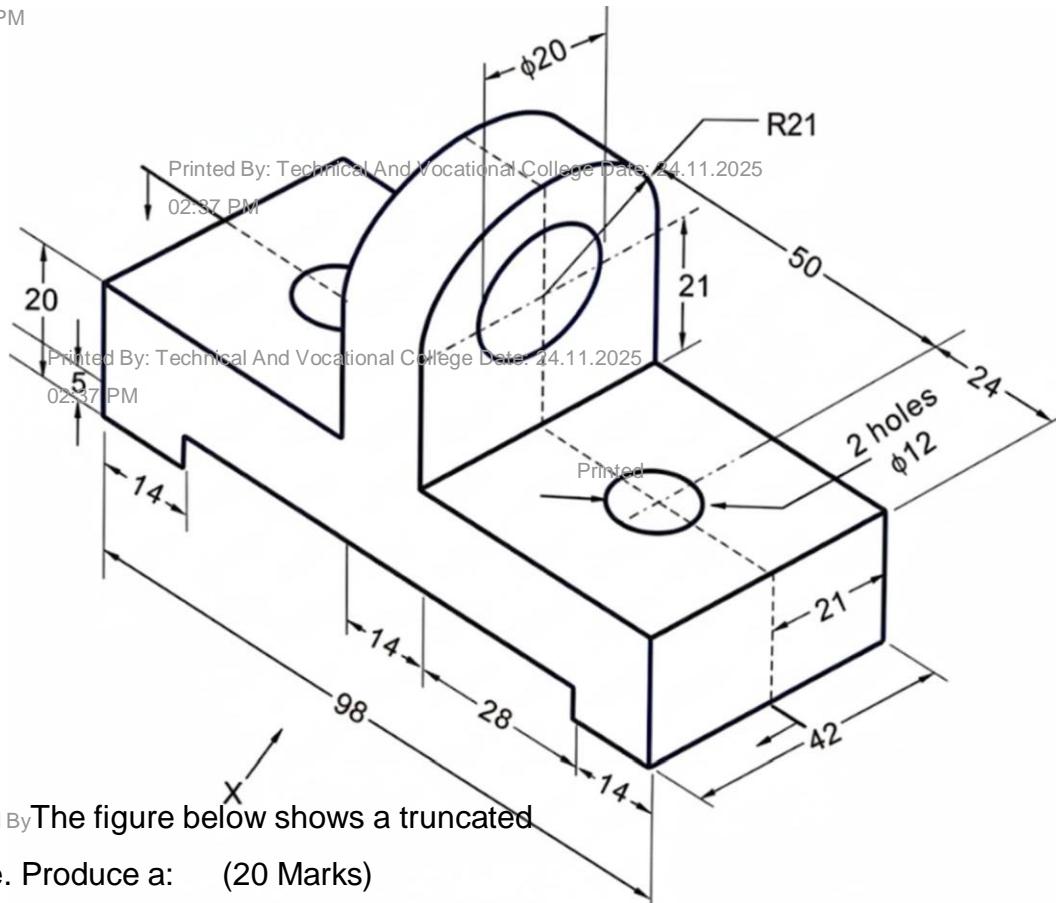


13. From the figure provided below, construct the following elevations in first angle orthographic projection.

- a. Sectional front elevation
- b. Side elevation

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The figure below shows a truncated cone. Produce a: (20 Marks)

- c. Plan elevation
- d. Side elevation
- e. True shape of cut surface

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