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**073206T4BLD****BUILDING TECHNOLOGY LEVEL 6****CON/OS/BUT/CC/02/6**Printed By: Technical And Vocational College **Prepare and**Date: 24.11.2025 02:37 PM **Interpret Technical Drawings November/December 2025**

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**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)****W R I T T E N****ASSESSMENT**

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**TIME: 3 HOURS**

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**INSTRUCTIONS TO CANDIDATE**

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **AL**ons 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**

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**indicated and that no questions are missing.**

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**SECTION A (40 MARKS)***Answer ALL the questions in this section*

1. Print the following words. (4 Marks)  
Quick brown fox jumps over the lazy dog
2. Define the following terms in technical drawing: (4 Marks)
- Scale.
  - Representative fraction
3. State three general safety measures when handling drawing instruments. (3 Marks)
4. There are different types of CADs used in construction software. (3 Marks)
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 factory square. (4 Marks)
10. Symbols are used in drawings to represent different elements. Draw the conventional symbols of the following elements (4 Marks)
- Mass concrete
  - Hardcore

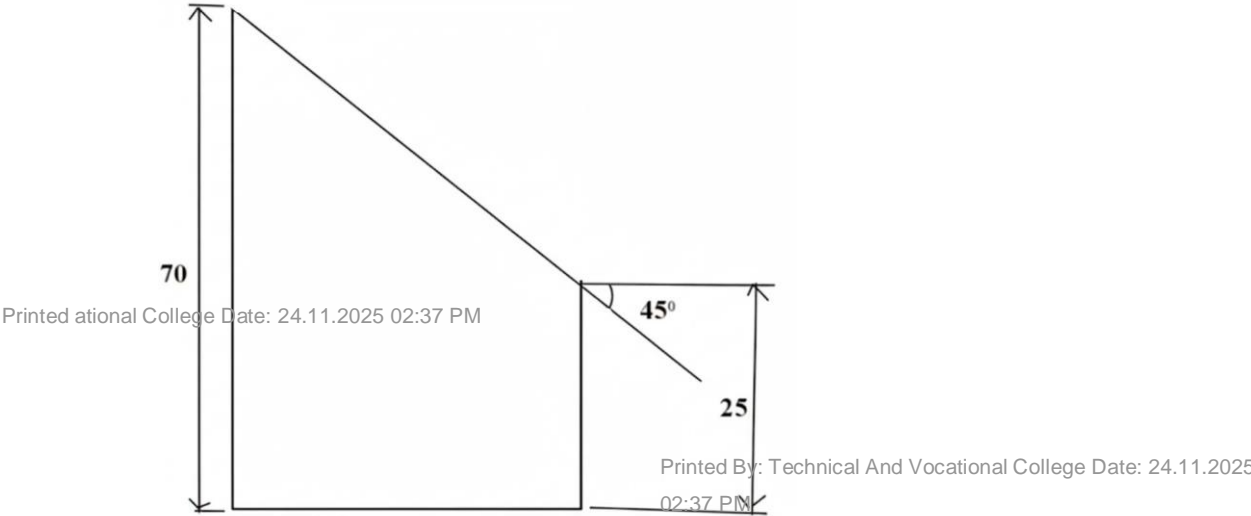
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SECTION B (60 MARKS)

Answer any THREE questions in this section

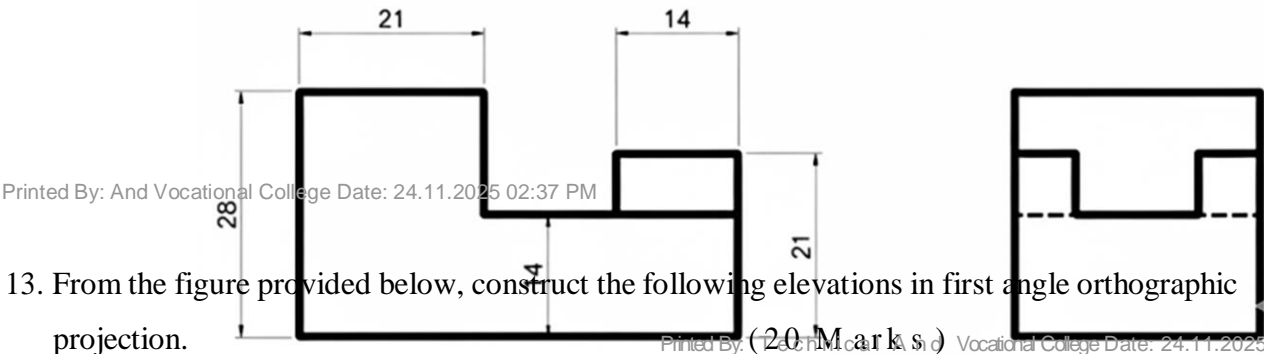
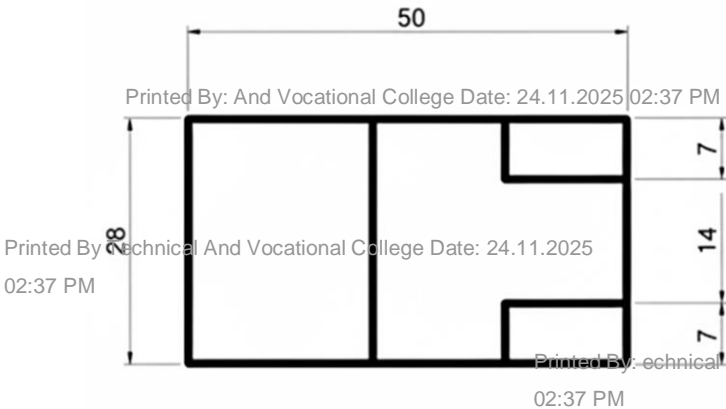
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- a. A wheel of 2 m in diameter has 12 spokes connecting the rim and the hub. The wheel is rotating in anticlockwise direction at 30 revolution per minute. A particle of dust travels from the centre to the rim along the spokes with uniform velocity in 2 seconds. Trace the archimedean spiral of the dust particle. (10 Marks)
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- b. Construct the surface development of the bottom covered truncated cylinder below. The diameter is 56mm. (10 Marks)
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12. Construct an isometric drawing from the orthographic projection provided below. (20 Marks)

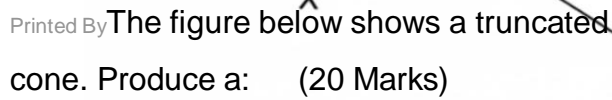
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13. From the figure provided below, construct the following elevations in first angle orthographic projection. (20 Marks)

- a. Sectional front elevation
- b. Side elevation

c. Plan



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