

071604T4AUT

AUTOMOTIVE TECHNOLOGY LEVEL 4

ENG/OS/AUT/CC/1/4

PREPARE AND INTERPRET APPLIED GEOMETRY DRAWINGS

July/Aug 2025

Printed By: Technical And Vocational College
Date: 28.07.2025 07:40 AM



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

WRITTEN ASSESSMENT

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TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the question as guided in each section
3. Marks for each question are as indicated in the brackets

4. You are provided with a separate answer booklet to questions
5. Do not write in this question paper

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This paper consists of FIVE (5) printed pages

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

SECTION A (10 MARKS)

Answer all questions in this section. Each question carries one mark.

1. What is the name given to an angle greater than 0° but less than 90° ;
A. Right angle
B. Reflex angle
C. Obtuse angle
D. Acute angle
2. Different types of lines are used in applied geometry. _____ is not a type of these lines.
A. Centre lines
B. Cavalier line
C. Cutting lines
D. Chain lines
3. In a first angle projection drawing where end elevation is viewed from the left-hand side. The end elevation is drawn on the _____ front elevation.
A. Left side of
B. Rear side of
C. Right side of
D. Top side of
4. The type of drawing that shows the front in its true shape and the receding axis drawn at half its scale is called;
A. Cavalier drawing
B. Perspective drawing
C. Cabinet drawing
5. In technical drawing what is the purpose of a section view?
A. To show the object from different angles
B. To represent the surface finish of the object
C. To provide dimensions for manufacturing

6. Which of the following is not a view of drawing orthographic projections?

A. Front view

B. First angle view

C. End view

D. Plan view

7. What shape will a circle take on an isometric projection drawing.

A. Circle

B. Sphere.

C. Cone.

D. Ellipse

8. The T-square serves as a guide for the set-squares for drawing parallel lines at commonly used angles except;

A. 30°

B. 60°

C. 75°

D. 45°

9. Which of the following is not a 2-dimensional drawing?

A. 1st angle projection.

B. Plan

C. 3rd angle projection

D. Isometric drawings.

10. Which he odd one out?

A. Cone

B. Cylinder

C. Hexagon

D. Pyramid

SECTION B (40 MARKS)***All the questions are attempted in this section***

11. Using free hand, sketching hand tools used in an automotive workshop.

i. Bearing puller

(2 Marks)

ii. Flat screw driver

(2 Marks)

12. Bisect line AB 80 mm long.

(4 Marks)

13. Name TWO Personal Protective Equipment worn while drawing.

(2 Marks)

14. Construct a circle of radius 50mm and label the following parts.

(4 Marks)

i. Chord

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ii. Arc

iii. Diameter

iv. Quadrant

15. State TWO waste disposal methods in applied geometry.

(2 Marks)

16. Construct the following angles using a compass.

(4 Marks)

i. 45°

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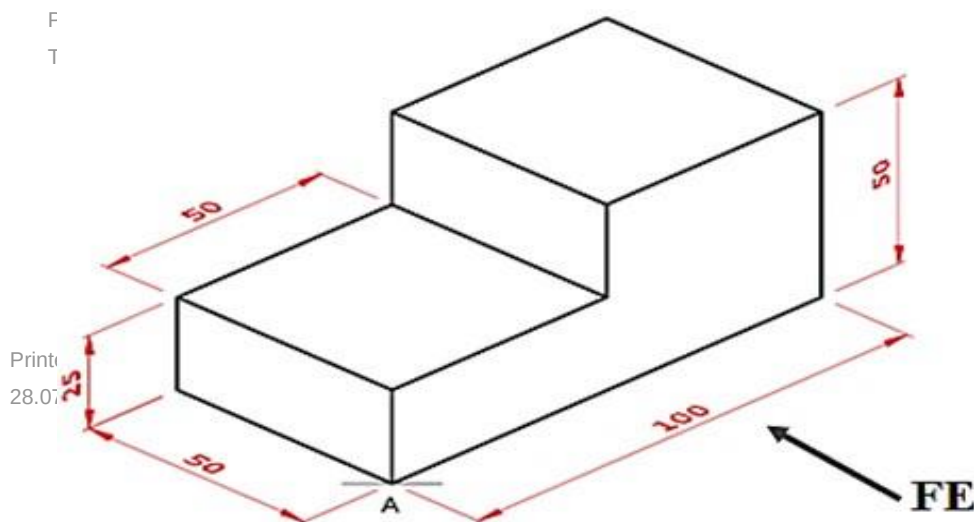
ii. 30°

17. Name FOUR types of drawing equipment used in applied geometry.

(4 Marks)

18. Figure 1 below shows a plate drawn in isometric projection. Draw the front elevation and plan in first angle projection. (All dimensions are in mm)

(4 Marks)

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21. I

(4 Marks)

sing concentric circles

(4 Marks)

n). (4 Marks)

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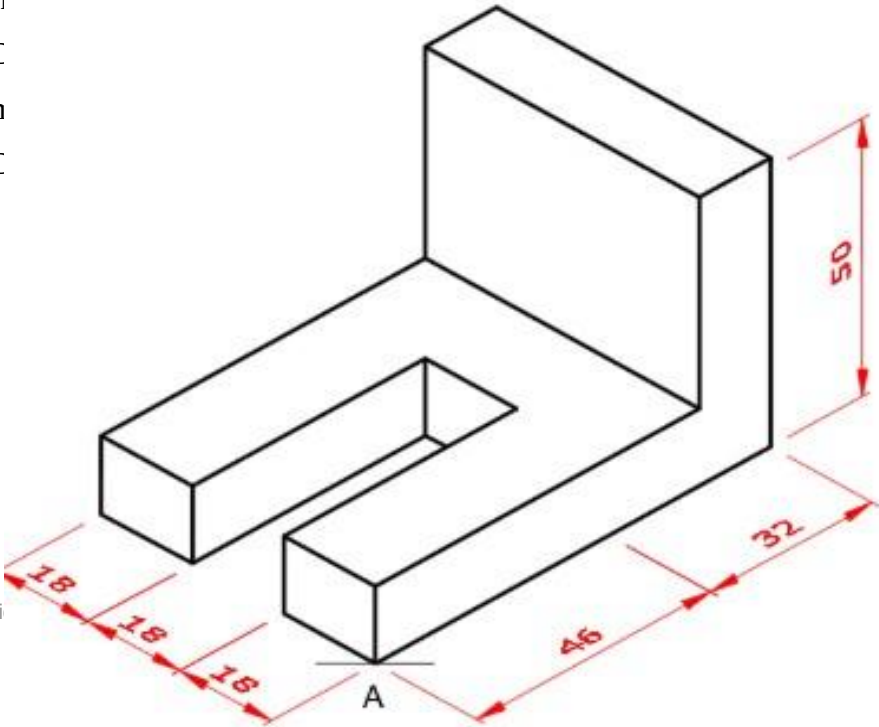


Figure 2

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