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BUGESERA DISTRICT

**TSS 2nd TERM DISTRICT COMPREHENSIVE ASSESSMENT
SCHOOL YEAR: 2024-2025**

...../100 MARKS

SECTOR: CONSTRUCTION AND BUILDING SERVICES

TRADE: BUILDING CONSTRUCTION

RQF LEVEL: 3

**MODULE CODE AND TITLE: BDCTD301: REALIZE CONSTRUCTION TECHNICAL
DRAWING**

DURATION: 3HOURS

DATE://2025

INSTRUCTIONS TO CANDIDATE:

- ✓ **This exam has three sections.**
- ✓ **Maximum marks...../100 Marks**
- ✓ **Attempt all Questions in A**
- ✓ **Choose only three questions in section B.**
- ✓ **Choose only one question in section C.**

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SCHOOL YEAR: 2024-2025**

SECTION A: Attempt all questions /55marks

1. Define the following terms used in building construction.

- a) drawing (2marks)**
- b) drawing board (2marks)**
- c) scale (2marks)**

2. What is the primary purpose of construction drawings? (2marks)

- a) to showcase the building's aesthetic
- b) to serve as a communication tool between the project team
- c) to display the landscaping details
- d) to market the building to potential buyers

3. Which drawing instrument is used to measure and draw angles accurately? (2marks)

- a) compass
- b) protractor
- c) T-square
- d) Set square

4. In technical drawing, there are three (3) different sizes of lines, what are those sizes of lines? (3marks)

5. Describe any five (5) geometric angles used in construction drawing (5marks)

6. Complete the table below with the standard dimensions of drawing board. (4marks)

Designation	Length x Width in (mm)
D0	X.....

D1	X.....
D2	X.....
D3	 X.....

7. What are three (3) main classes of drawing pencils according to their degree of hardness? (3mrks)

8. In construction drawing, what is the purpose of projecting an angle in the drawing? (2marks)

- a) To create a realistic view of the object
- b) To determine the scale of the drawing
- c) To represent the object in a particular direction or orientation
- d) To measure the dimensions accurately

9. What is the primary purpose of lettering in construction drawings? (2marks)

- a) To create artistic designs
- b) To provide clear and readable information
- c) To improve the aesthetics of the drawing
- d) To emphasize key structural elements

10. Which of the following is a major advantage of using orthographic projection in engineering drawings? (2marks)

- a) It provides a realistic 3D view of the object
- b) It maintains true proportions and measurements of the object
- c) It is simpler to interpret than perspective projection
- d) It distorts the object for better visual clarity

11. Which of the following is a recommended height for lettering in construction drawings? (3marks)

- a) 1-2 mm
- b) 3-5 mm
- c) 6-8 mm
- d) 12-15 mm

12. Give the drawing instrument used to perform the following tasks: (8marks)

- a) To draw lines at 30° , 60° and 45° to the vertical and horizontal.
- b) To mark or measure angles between 0° and 360°
- c) To fix the drawing sheet on the drawing board
- d) To draw circles and arcs of circles

13. In third-angle projection, where is the top view positioned relative to the front view? (3marks)

14. State two methods of dimensioning (4marks)

15 What is the most commonly used lettering style in construction drawings for clarity and legibility? (2marks)

- a) Italic
- b) Roman
- c) Gothic
- d) Cursive

16. Which of the following best describes the primary difference between first-angle and third-angle projections?(2marks)

- a) The position of the object relative to the plane of projection
- b) The use of parallel lines in projection
- c) The method of creating depth in the image
- d) The angle of projection used in the image

17. What does the "H" in pencil grades (e.g., 2H, 4H) stand for in the context of engineering drawing pencils?(2marks)

- a) Hardness
- b) High-quality
- c) Heavy lines
- d) High-grade

SECTION B: CHOOSE ONLY THREE QUESTIONS (30marks)

18.a) List any five (5) principles of dimensioning.

b) Differentiate the full size scale from the reducing scale.

19. Observe the table below and fill the gaps by the weight of lines and the symbols of lines to each type of lines.

TYPES OF LINES	WEIGHT OF LINES	SYMBOLS OF LINES
1.Objectline		
2.Hidden line		
3.Center line		
4.Phantom line		
5.Extension& Dimension line		
6.Leader line		
7.Section line		
8.Cutting plane line		
9.Short break		
Long break		

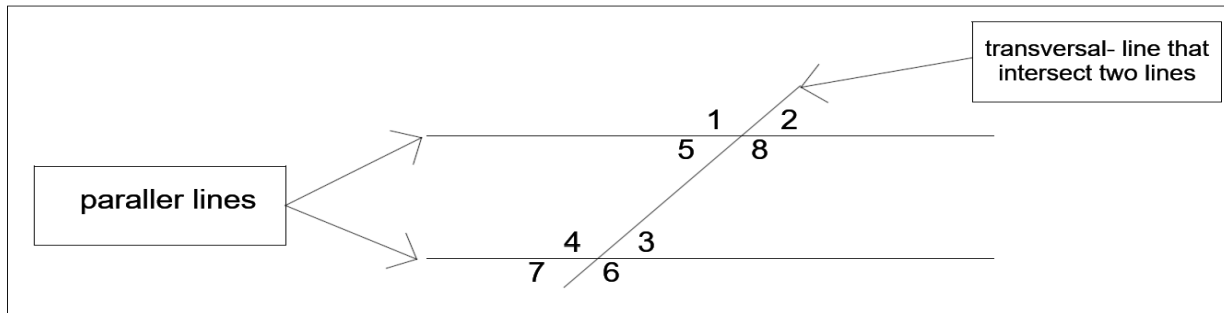
20) Fill the following table of the successive sizes of Drawing Sheet.

Designation	Dimension, mm Trimmed size	
	x	y
A0		1189
A1		

A2		
A3		
A4	210	

21. Based on the observer's position relative to the object, projection can be categorized into two (2) broad types. Give and explain those types.

22. from the figure below, give relationship of the following angles:



- a. angles 3,4,5 and 8
- b. angles 1,2,6 and 7
- c. angles 3 and 5
- d. angles 4 and 8
- e. angles 2 and 7

SECTION C: CHOOSE ONLY ONE QUESTION (15marks)

23.a) Give and clearly differentiate two classification of drawing?

b) the slope length of line AB is 60m and the angle of slope is 40 degrees.

Calculate the horizontal Length AC of the line.

24. Draw a chart which shows properly the types of projection in details on a projection tree.

GOOD LUCK!!!!!!!!!!!!!!!!!!!!