

Candidate's Examination Number.....

SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM THREE ENTRANCE EXAMINATION

058

ARCHTECTURAL DRAUGHTING

TIME: 2:30 HOURS

FRIDAY 05TH NOVEMBER, 2021 P.M

INSTRUCTIONS TO CANDIDATES

1. This paper consists of THREE (3) sections A, B and C.
2. Answer ALL questions in this paper.
3. All dimensions are in millimeters (mm).
4. Write your examination number on every page of this booklet.
5. Cellular phones are unauthorized materials are not allowed in the examination room.

FOR EXAMINER'S USE ONLY					
Question number	Marks	Signature	Question number	Marks	Signature
1			6		
2			7		
3			8		
4			9		
5			10		
TOTAL					

This paper consists of 8 printed pages

SECTION A: (15 Marks)

Answer ALL questions in this section.

1. Choose the correct answer and writing its letter below the item number in a given table.
 - i) The unit of dimension used to describe linear measurement in drawing is
 - A. inches
 - B. kilometers
 - C. metre
 - D. millimeters
 - ii) T- square is used to draw
 - A. All vertical lines
 - B. All inclined lines
 - C. Centre lines
 - D. Horizontal lines
 - iii) If you are a drafter and you want to represent correctly the size of an object, which category of rules would you use?
 - A. Electronic rule
 - B. Empirical rule
 - C. Scaled rule
 - D. Tate rule
 - iv) The dimension of paper size A3 is
 - A. 540mm by 200mm
 - B. 594mm by 841mm
 - C. 297mm by 420mm
 - D. 218mm by 110mm
 - v) The language used by draught men when they describe an object or piece of work is known as
 - A. Architectural language
 - B. Technical language
 - C. Technical drawing
 - D. Technology
 - vi) The dimension of paper size A4 is
 - A. 540mm by 200mm
 - B. 594mm by 841mm
 - C. 841mm 189mm
 - D. 210mm by 297mm
 - vii) What is the name given to figures having five or more sides?
 - A. Decagon
 - B. Hexagon
 - C. Pentagon
 - D. Polygon

viii) Which equipment would you use to draw standard geometrical figures like square, hexagonal and triangular shapes?

- A. French curve B. Pallets C. Protractor D. Template

ix) The name given to the instrument used for drawing purpose is

- A. Compass B. Drawing board C. Protractor D. Rule

x) Technical drawing has its own rules based on

- A. The use of pencil B. The correct use of lines and figures
C. The use of sign D. the use of rubber

Answers

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the meaning of technical terms in **column A** with the corresponding terms in **column B** by writing the letter of the correct term below the item number in a given table.

COLUMN A	COLUMN B
i) A straight line which is perpendicular to horizontal line	A. Cord
ii) A part of a circumference of a circle	B. Bisect
iii) A straight line drawn across a circle and terminated by the circumference	C. Perpendicular line
iv) To divide line or angle into two equal parts	D. An arc
v) A straight line which is at right angle to another line	E. Vertical line
	F. Right angle
	G. An oblique

Answers

i	ii	iii	iv	v

SECTION B: (70 Marks)

Answer ALL questions in this section.

3. a) Construct an angle of 60° and angle of 75°

b) Draw a line of 14cm and bisect it

4. Different types of lines are used especially when you want to draw an object.

Explain any five (5) types of lines that will be used if you want to draw an object

5. a) Name five (5) components shown in the title block.

b) Draw the projection symbols for the first and third angle projection.

6. a) Mention the three (3) types of polygons.

- b) Show the number of sides for each of the polygons you mentioned above.

- c) Calculate the interior angles of the regular heptagon.

7. Construct isometric circle with diameter of 10cm.

8. a) State any three (3) drawing instruments used in architectural draughting.

b) Show how you will divide a line of 15cm in to seven (7) equal parts.

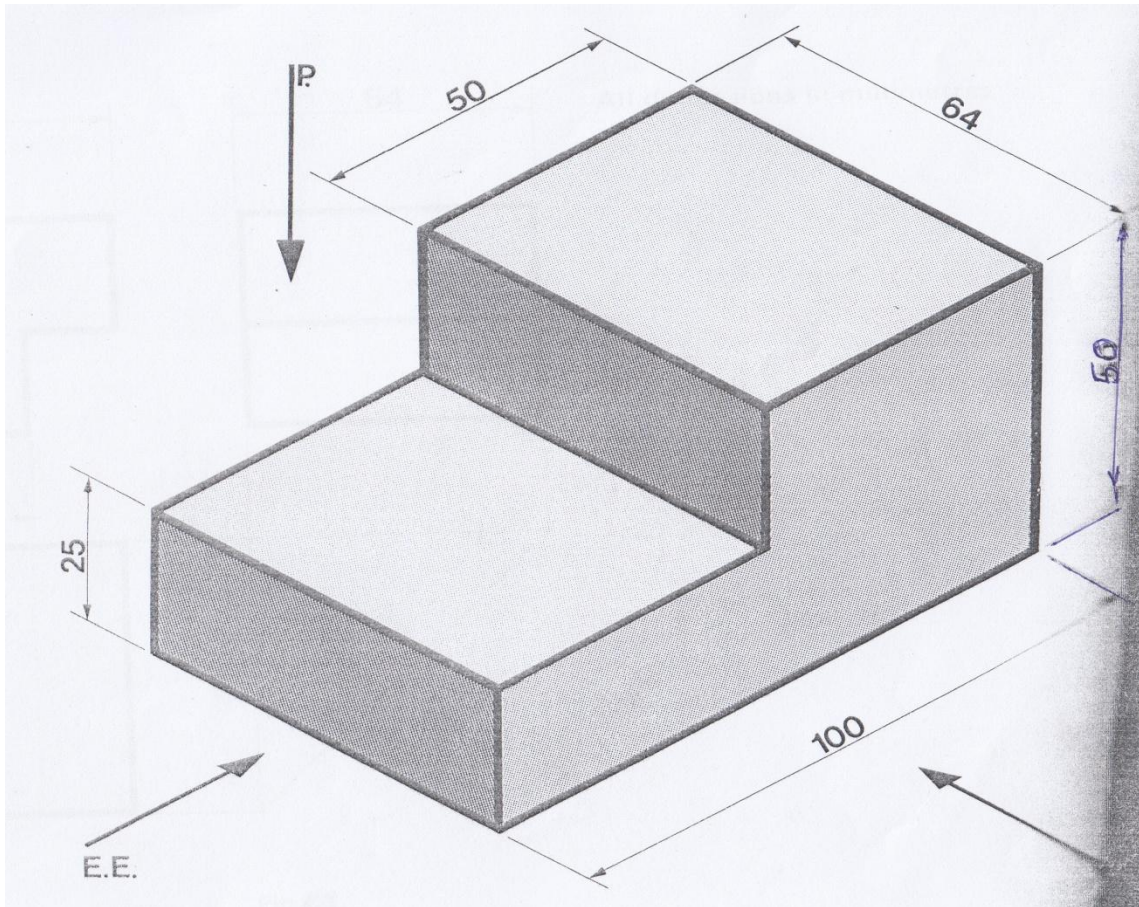
9. Mr Abdalla wants to draw a floor plan for the house of his teacher. In order to have good drawing results he must follow some important rules but unfortunately he did not remember the rules. As a qualified architecture, tell him any five (5) important rules for the floor plan to be good.

SECTION C: (15 Marks)

Answer only ONE question in this section.

10. a) Students who study Basic Mathematics in KISERENGO secondary school failed to distinguish between First angle projection and Third angle projection. As an expert in Architectural draughting, explain three (3) differences between First angle projection and Third angle projection in order to help the students.

- b) From the given figure below, draw the Plan, Front elevation and End elevation.
Use First angle projection



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