

# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

**General Certificate of Education Advanced Level** 

# WOOD TECHNOLOGY AND DESIGN

6027/3

PAPER 3 Drawing and Design

**SPECIMEN PAPER** 

3 hours

Additional materials:

Electronic calculator USB flashdisk,

Mathematical Set, A3 Drawing paper,

Computer with Autocad applications,

3D printer

**TIME** 3 hours

#### INSTRUCTIONS TO CANDIDATES

Type your centre number, candidate number and name in the spaces provided on all your electronic answer sheets.

Section A: Answer all questions

Section B: Answer **one** question from this section.

The total marks for this paper is 100

#### INFORMATION FOR CANDIDATES

Marks are given in brackets [] at the end of each question. At the end of the examination, save your work on the USB disk and print your work. Fasten your work securely together.

#### This question paper consists of 4 printed pages.

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## SECTION A (20 MARKS)

## Answer all questions.

You are advised not to spend more than 30 minutes on this section.

- 1 What is a command line used for in Autocad? [2] (a) Where are blend curves used? **(b)** [2] Name the two drawing spaces in Autocad. (c) [2] Name the process of creating an object at a distance on one side of an (d) original object. [2] Describe rendering in Autocad. **(e)** [2]
  - (f) Figure 1 shows part of a bicycle. Reproduce the drawing in Figure 1 using the given measurements to a scale 1:1 [10]

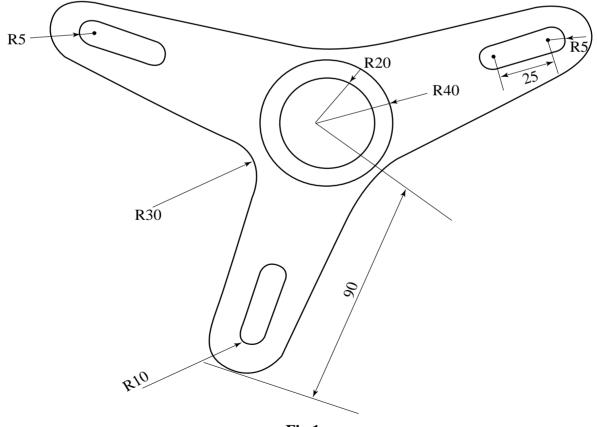


Fig.1

### SECTION B: (80 MARKS)

Answer one question from this section. You are advised to spend  $2\frac{1}{2}$  hours on this section.

- 2 The sketch in **Figure 2** shows an incomplete floor plan of a five roomed house.
  - (a) Design the layout plan of the five roomed house.

The plan should include:

- (i) two bedrooms
- (ii) a passage
- (iii) important dimensions excluding external dimensions.

Fill in title block details.

[20]

- **(b)** In the appropriate rooms, place the following accessories:
  - beds,
  - dressing table,
  - sofas,
  - built in cupboards,
  - sinks, bathtub, water closet,
  - TV set, refrigerator and
  - stove. [20]
- 2 (c) Use 3D to model the kitchen in **2(b)** above. Add more items or features in the kitchen. Use colour to enhance the appearance of the drawing. [40]

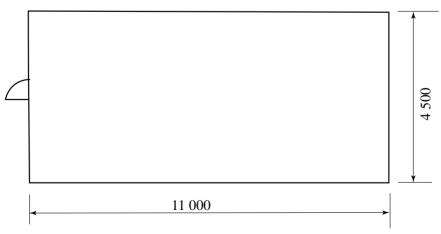


Fig.2

3.	A small office measuring 6 000 mm x 4 000 mm is to be attached to the church hall. A lean-to roof structure is to be fixed to the existing hall.			
	(a)	(i)	Design the lean-to truss for the office in 2D.	
		(ii)	Clearly label all the parts/ members	
		(: <u>::</u> )	<ul> <li>king post</li> <li>queen post</li> <li>strut</li> <li>common rafter</li> <li>beam</li> </ul>	
		(iii) (iv)	Show all important dimensions.  Fill in all appropriate details in the title block.	[40]
	(b)		the attachment details of the trees to the well in 3D:  at the apex,  at the foot.	[20]
	(c)	. ,	flashing details for the wall and the roof covering materials in 2D.	