



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN RENEWABLE ENERGY AND BIO FUELS TECHNOLOGY

COURSE CODE:

REN 122

COURSE TITLE:

ENGINEERING DRAWING II

DURATION: 2 HOURS

DATE:

24

INSTRUCTIONS TO CANDIDATES

- Answer **QUESTION ONE** (Compulsory) and any other **ONE** (1) Question.
- Indicate **answered questions** on the front cover.
- Start every question on a new page and make sure question's number is written on each page.

This paper consists of 5 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

SECTION A: COMPULSORY

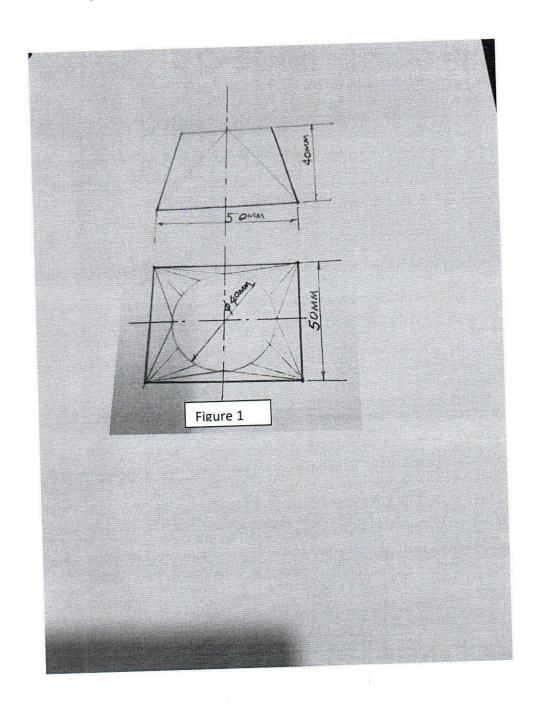
QUESTION ONE (20 MARKS)

(a)Draw a VERTICAL ellipse given the following: Major diameter = 80mm; Minor diameter = 50mm	
	(5 marks)
(b) Define the following terms applied in geometric drawing:	
(i) Ellipse (ii) Helix	
	(5 marks)
(c)Draw a parabola given that the focus is 20mm away from the directrix	
(c)Dian a paras	(5 marks)
(e) With the aid of FREE HAND sketches, differentiate between OBLIQUE and	ISOMETRIC
Engineering drawing	
	(5 marks)

SECTION B: ANSWER ONE QUESTION FROM THIS SECTION.

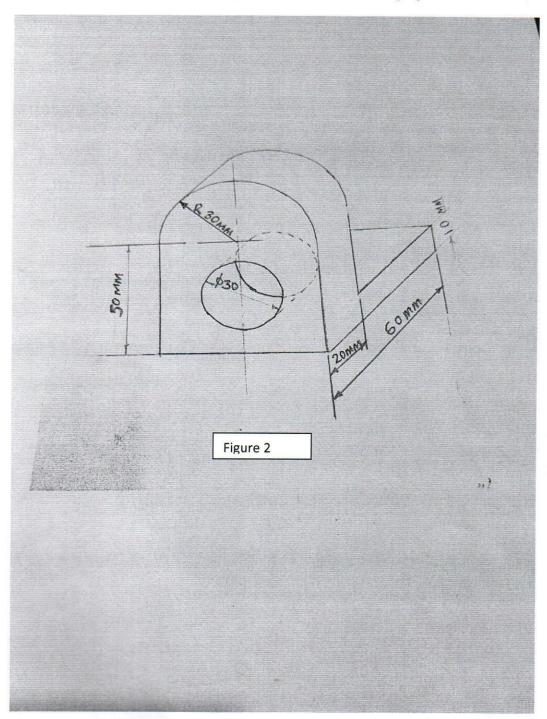
QUESTION TWO (20 MARKS)

Draw the pattern of a CIRCLE to SQUARE Transformer shown in Figure 1.



QUESTION THREE (20 MARKS)

From the oblique view given in figure 2, draw an isometric projection



QUESTION FOUR (20 MARKS)

Figure 3 shows two cylinders A and B of different diameters meeting at right angles. Draw the following:

- (i) Views in third angle
- (ii)Pattern of cylinder A

