



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: 17/05/2022

TIME: 9:00AM-11:00AM

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)

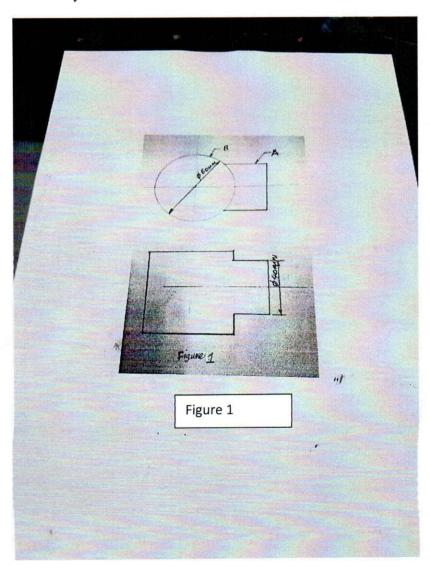
(a) Define the following terms applied in geometric drawing:		
S (2)	llipse arabola	
		(5 marks)
(b)Draw a VERTICAL ellipse given the following: Major diameter = 80mm; Minor diameter = 50mm		
		(5 marks)
(c)Draw a parabola given that the focus is 20mm away from the directrix		
		(5 marks)
(e) With the aid of FREE HAND sketches, differentiate between Isometric and Oblique		
Engineering drawing projections		
		(5 marks)

SECTION B: ANSWER ONE QUESTION FROM THIS SECTION

QUESTION TWO (20 MARKS)

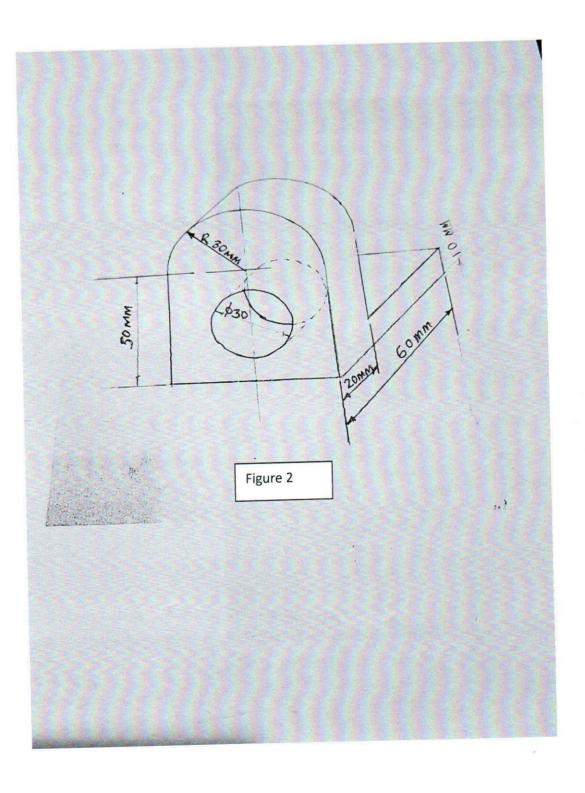
Figure 1 shows two cylinders A and B of different diameters meeting at right angles. Draw the following:

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



QUESTION THREE (20 MARKS)

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



QUESTION FOUR (20 MARKS)

Draw the pattern of a square to circle transition piece shown in Figure 3.

