



# **KIBABII UNIVERSITY**

### UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

# FIRST YEAR SECOND SEMESTER SUPPLEMENTARY 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: 29/07/2022

TIME: 2:00PM-4:00PM

#### 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 4 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

#### **SECTION A: COMPULSORY**

### QUESTION ONE (20 MARKS)

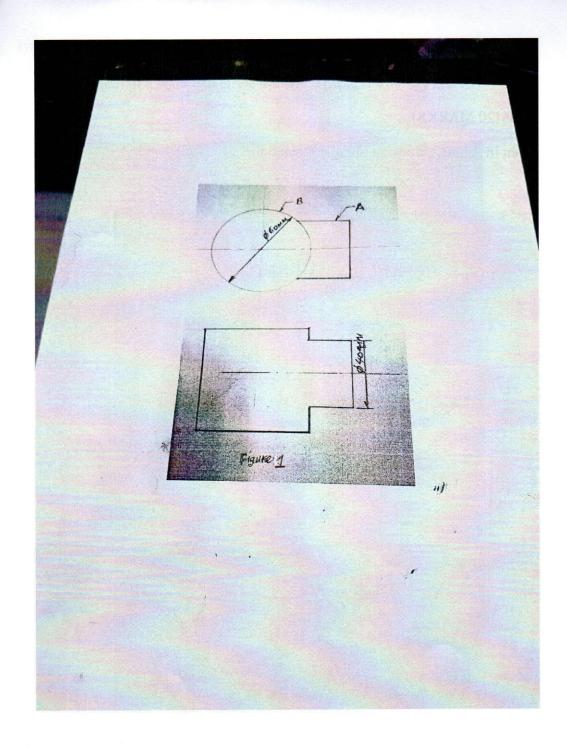
(a)Draw a HORIZONTAL ellipse given the following: Major diameter = 80mm; Minor diameter = 50mm	
	(5 marks)
(b) Define the following terms applied in geometric drawing:	
(i) Ellipse	
(ii) Parabola	
	(5 marks)
(c)Draw a parabola given that the focus is 20mm away from the directrix	
	(5 marks)
(e) With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

### SECTION B: ANSWER ONE QUESTION FROM THIS SECTION.

QUESTION TWO (20 MARKS)

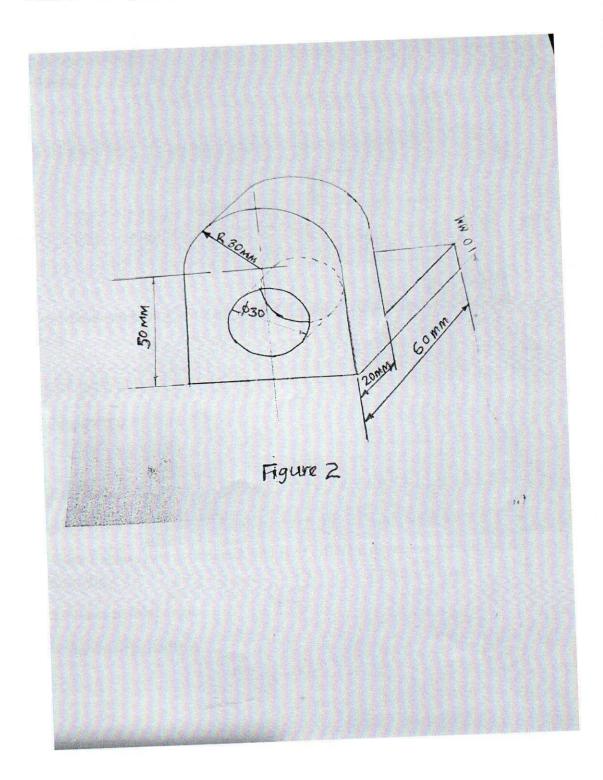
Figure 1 shows two cylinders A and B of different diameters meeting at right angles. Draw the following:

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



# QUESTION THREE (20 MARKS)

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



## QUESTION FOUR (20 MARKS)

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

