



## KIBABII UNIVERSITY

### UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

#### FIRST YEAR FIRST SEMESTER

#### MAIN EXAMINATIONS

FOR THE BACHELOR OF RENEWABLE ENERGY AND BIOFUELS TECHNOLOGY

COURSE CODE

PRD 161

COURSE TITLE

**ENGINEERING DRAWING 1** 

**DURATION** 

: 2 HOURS

DATE: 16<sup>TH</sup> JANUARY 2018

TIME: 2-5PM

#### **INSTRUCTIONS TO CANDIDATES**

Answer question 1 and any other two (2) questions

Time: 2 hours

#### QUESTION 1 (30 marks)

- a. Using A2 drawing paper, draw the border lines and title block indicating the title as EXAMINATION, SCALE, DATE, your REGISTRATION NUMBER, DRWG NO. and Your NAME.
- b. Draw the three orthographic views of Fig. 1 in First Angle projection and include at least six (6) dimensions.

#### QUESTION 2 (20 marks)

Without using a protractor, draw triangle ABC with AB = 120 mm, BC = 80 mm and angle ABC =  $75^{\circ}$ . Construct an inscribed circle to touch the three sides of the triangle.

#### QUESTION 3 (20 marks)

A piece of wire 400 mm is bent to make a regular pentagon shape. Draw the finished pentagon to scale 1:1.

#### QUESTION 4 (20 marks)

Draw the three orthographic views of Fig. 2 in Third Angle projection and include at least six (6) dimensions.

#### QUESTION 5 (20 marks)

Copy the given sectional views of a pillow block as shown in Fig. 3. Draw the given views and insert all dimensions.

# PRD 161 EXAM

