

CHUKA



UNIVERSITY

**SUPPLEMENTARY / SPECIAL EXAMINATIONS**

**FOURTH YEAR EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE  
IN ELECTRICAL AND ELECTRONIC ENGINEERING**

**EENG 112: ENGINEERING DRAWING I**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 18/11/2020**

**11.30 AM - 1.30 P.M.**

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**INSTRUCTIONS:**

- Answer question ALL questions (40 MARKS)

**QUESTION ONE**

- (a) What is a technical drawing? (2 marks)
  - (b) Draw an ellipse using the concentric circles method. (5 marks)
  - (c) List three applications of technical drawings. (3 marks)
  - (d) Name some common drawing instruments and their uses. (4 marks)
  - (e) What are the ISO rules for lettering? (3 marks)
  - (f) List 3 elements of dimensioning (3 marks)
  - (g) What is orthographic projection? (1 mark)
  - (h) Draw an arc touch two straight lines that intersect at an angle of 60. (4 marks)
  - (i) Construct a regular polygon of 6 sides and 8 sides in one, of length 40 mm. (6 marks)
  - (j) List 5 types of scales. (5 marks)
  - (k) Construct a plain scale to show meters when 1 centimeter represents 5 meters and long enough to measure 65 meters. Find the R.F and mark on your scale a distance of 52 meters. (4 marks)
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