

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS
RESIT/SPECIAL EXAMINATION**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
PUBLIC HEALTH**

PUHE 171: TECHNICAL DESIGNS AND DRAWING

STREAMS: BSC PUHE

TIME: 2 HOURS

DAY/DATE: THURSDAY 12/08/2021

11.30 A.M – 1.30 P.M.

INSTRUCTIONS:

- **ANSWER ALL QUESTIONS.**

QUESTION ONE (30 MARKS)

- Explain 6 by-laws to buildings and sanitation according to the public health CAP 242. (12 marks)
- State four rules of dimension lines? (4 marks)
- With the help of a diagram, show the generic CAD process (4 marks)
- List three applications of technical drawings. (3 marks)
- List 2 elements of dimensioning (2 marks)
- What is orthographic projection? (1 mark)
- Construct a plain scale to show meters when 1 centimeter represents 5 meters and long enough to measure 50 meters. Find the R.F and mark on your scale a distance of 36 meters. (4 marks)

QUESTION THREE (20 MARKS)

- Explain the passing or rejection of plans and retention of plans according to the public health CAP 242. (12 marks)
- Name the geometric nomenclatures and draw a qualitative shape of them. (4 marks)

- c) Explain 4 major benefits of CAD. (4 marks)

QUESTION FOUR (20 MARKS)

- a) Explain the construction and regulation of buildings used for storage of foodstuffs according to the public health CAP 242. (12 marks)
- b) Name and explain 4 solid primitives used on AutoCAD? (8 marks)
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