CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR 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

[10 Marks]

DAY/DATE: WEDNESDAY 24/3/2021 11.30 AM – 1.30 PM

INSTRUCTIONS

Answer question ONE and any other TWO questions

Do not write on the question paper

QUESTION ONE

(a) List three applications of technical drawings. [3 Marks] (b) List 2 elements of dimensioning. [2 Marks] (c) What is orthographic projection? [1 Mark] (d) 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 o 36 meters. [4 Marks] (e) List 5 types of scales. [5 Marks] (f) Name some common drawing instruments and their used. [4 Marks] (g) What is Computer Aided Design / Drafting (CAD) [1 Mark] (h) For a building of measurements 40 m by 25m, design a piping layout that uses a series of

welded and flanged joints. Draw the system using double-line symbols.

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SECTION B- ANSWER ANY TWO QUESTIONS

QUESTION TWO (20 MARKS)

a)	Ex	nlain 6 by	v-laws t	o buildi	ngs and	l sanitation	according	to the	public	health	CAP	242
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[12 Marks]

b) State four rules of dimension lines?

[4 Marks]

c) With the help of a diagram, show the generic CAD process.

[4 Marks]

QUESTION THREE (20 MARKS)

- a) Explain the passing or rejection of plans and retention of plans according to the public health CAP 242. [12 Marks]
- b) 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 Auto CAD? [8 Marks]

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