

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF BACHELOR OF EDUCATIO (ARTS)

GEOG 233: CARTOGRAPHY AND SURVUEYING

STREAMS: BA (GEOG, ECON & SOCIOLOGY) Y2S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 8/12/2017

8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer Question ONE and any other TWO Questions
- Sketch diagrams and illustrations should be used whenever necessary to support your answer.

(a) QUESTION ONE

- (b) Using a sketch map, explain the four features of a good cartographic map. [12 Marks]
- (c) Describe any FIVE sources of data used in map making. [15 Marks]
- (d) Outline any THREE properties measurement parameters in surveying. [3 Marks]

QUESTION TWO

Examine any FIVE types of horizontal survey measurements. [20 Marks]

QUESTION THREE

- (a) Explain the two methods of booking and reducing levels. [4 Marks]
- (b) The following readings were taken from the observation in a field survey

Station A	2.400,	2.000,	1.900,	1.400
Station B	20800,	2.000,	1.400,	2.600
Station C	1.300,	2.500,	3.000	
Station D	0.600,	1.700,	2.100	

Book and reduce the above readings using Rise and fall method. [7 Marks]

Given the Reduce level of A is 150.00, then calculate the reduced levels of other stations.

[3 Marks]

- (c) Explain any THREE kinds of errors arising from surveying and how to correct them.

[6 Marks]

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QUESTION FOUR

- (a) Examine any FOUR properties of symbols used in 2D mapping. [6 Marks]
- (b) Discuss FOUR sources of data for map making. [12 Marks]
- (c) Differentiate between geographic fields and geographic objects. [2 Marks]

QUESTION FIVE

Briefly explain the following concepts:

- (a) Statistical maps [4 Marks]
 - (b) Scales of measurements. [4 Marks]
 - (c) Levelling [4 Marks]
 - (d) Coordinates [4 Marks]
 - (e) Chain surveying [4 Marks]
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