

201/14/15/0261

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FACULTY OF SOCIAL AND MANAGEMENT SCIENCES
DEPARTMENT OF GEOGRAPHY
2015/2016 HARMATTAN SEMESTER EXAMINATION
B.Sc. DEGREE EXAMINATION

COURSE TITLE: ELEMENTARY SURVEYING

COURSE CODE: GRP 203

INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER TWO (2)

TIME ALLOWED: 2 HOURS

1(a) Define the term Levelling. Itemize the significances of the technique of leveling (8 marks)

1(b) Explain the following terms used in leveling:

(i) Datum (ii) Reduced level (iii) Bench Marks (12 marks)

1(c) The following figures were extracted from a level field book. Re-book using the Rise and Fall Method showing all Arithmetical checks on the working.

B.S	I.S	F.S	RISE	FALL	R.L	REMARKS
0.663						BM on gate, 98.76m
	1.946					
	1.008					
	1.153					
2.787		1.585				
	2.270					
	1.218					
		0.646				Station G

(20 Marks)

2(a) Define the term 'Surveying' and name any three (3) types of Surveying.

(b) List two reasons why Geographers/Geologists/other related professions need knowledge of elementary surveying

(c) Outline the uses of maps to your profession (15 marks)

3(a) What are "offsets" in Surveying?

(b) Identify and describe ten (10) major Surveying Equipments you know (15 marks)

4(a) Describe briefly the main features of a Gunter's chain.

(b) Outline four (4) major hints that are very important in chain surveying booking (15 marks)

5(a) Identify and discuss the two main groups of error in Chain Surveying.

(b) State the formula for correcting error in chain length and area of feature (15 marks)