

DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION.
FEDERAL UNIVERSITY OF TECHNOLOGY MINNA.
2ND SEMESTER EXAMINATION 2012/2013 SESSION.

CODE: BUD 221 COURSE TITLE: LANDS SURVEYING TIME ALLOWED: 2HRS

INSTRUCTION: ANSWER QUESTION 1 AND 5 ANY OTHER ONE QUESTION

1a. All the different types of obstacles can be readily by – pass using some principles of plain geometry. List three (3) of such principles that can be used in circumventing obstacle and sketch any one.

1b. Outline three (3) characteristics of unclosed traverse.

1c. Reproduce the table below and find the missing figure in the Collimation method of booking readings.

S/NO	BS	IS	FS	HEIGHT OF COLLIMATION	REDUCED LEV.	REMARK
1	0.17	-	-	?	36.00	BMI
2	-	?		?	34.89	
3	-	1.31	-	?	?	
4	-	-	2.43	?	?	
5	?	-	-	?	-	C/POINT
6	-	2.78	-	?	?	
7	-	?	-	?	34.64	
8	-	-	3.52	?	?	

2a. The entire work of a survey operations can be divided into three (3) distinct stages. Name them and explain any one.

2b. Generally, survey work consist of three (3) major components. List them all and give four (4) reasons for reconnaissance.

2c. Define the followings in connection with survey work.

- i. Topographic survey, (ii). City survey (iii). Hydrographic surveys (iv). Archaeological survey.

3a. Give four (4) examples of mistake or human error in chain surveying.

3b. Define the following.

- i. Compass surveying ii. Local attraction iii. Ranging iv. Offset

3c. Enumerate five (5) advantages of cloth of linen tape in survey operations.

4a. Mention ten (10) surveying instruments and sketch any five (5).

4b. what is traversing?

4c. outline six (6) reasons why we survey land

5a. what is compass, mention three (3) major part of prismatic compass.

5b. Mention two (2) types of obstacle that are associated to survey work.

5c. the following series of readings were carried out by surveyor Musa at the Main land college Oshogbo. Book the readings in rise and fall method and check your answer arithmetically. Take 44. 00 as the reduce level

1. 2.60, 2.18, 2.54, 1.77 and 2.55
2. 0.76, 1.46, 1.11, 0.86 and 1.97
3. 1.88, 2.38, 1.61, 0.89 and 2.40