



**THE COUNCIL OF COMMUNITY COLLEGES OF JAMAICA**  
**ASSOCIATE OF SCIENCE EXAMINATION**  
**SEMESTER II – 2019 MAY**

**PROGRAMMES:** ARCHITECTURAL AND CONSTRUCTION  
TECHNOLOGY

**COURSE NAME:** LAND SURVEYING I

**CODE:** BLDG1203

**YEAR GROUP:** ONE

**DATE:** WEDNESDAY, 2019 MAY 15

**TIME:** 12:00 NOON – 2:00 P.M.

**DURATION:** 2 HOURS

**EXAMINATION TYPE:** FINAL

*This Examination Paper has 7 Pages*

**INSTRUCTIONS:**

1. ANSWER ALL QUESTIONS FROM SECTION A
2. SECTION B CONSISTS OF FOUR (4) QUESTIONS. ANSWER ANY TWO (2)

**DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO**

**SECTION B**

**Instruction:** In the booklet provided, answer any TWO (2) questions from this section.

**Question 1**

- A. Calculate the difference in elevation between BM130 and BM132. (25 marks)
- B. Show checks to prove calculations. (5 marks)

Back sight	Intermediate Sight	Fore sight	Instrument height	Reduce level	Remarks
0.702				171.500	BM130
	0.970				A
	0.855				B
	0.559				C
1.744		2.780			T.P.1
	1.973				D
	1.840				E
	1.788				F
1.235		0.888			T.P.2
	1.652				G
0.938		0.987			T.P.3
	1.112				H
	0.989				I
		1.354			BM132

(Total 30 marks)

**Question 2**

Explain **FIVE (5)** types of branches/types of survey.

(Total 30 marks)

Hydrographic  
 Photogrammetric  
 CADASTRAL - relevant INFO.  
 Topographic  
 Geodetic  
 Demographic

6  
—  
6

**Question 3**

Explain each of the following principles of surveying:

- i. Reconnaissance and Planning
- ii. Control
- iii. Independent Check
- iv. Revision
- v. Consistency
- vi. Safe guarding

0/5

(Total 30 marks)

**Question 4**

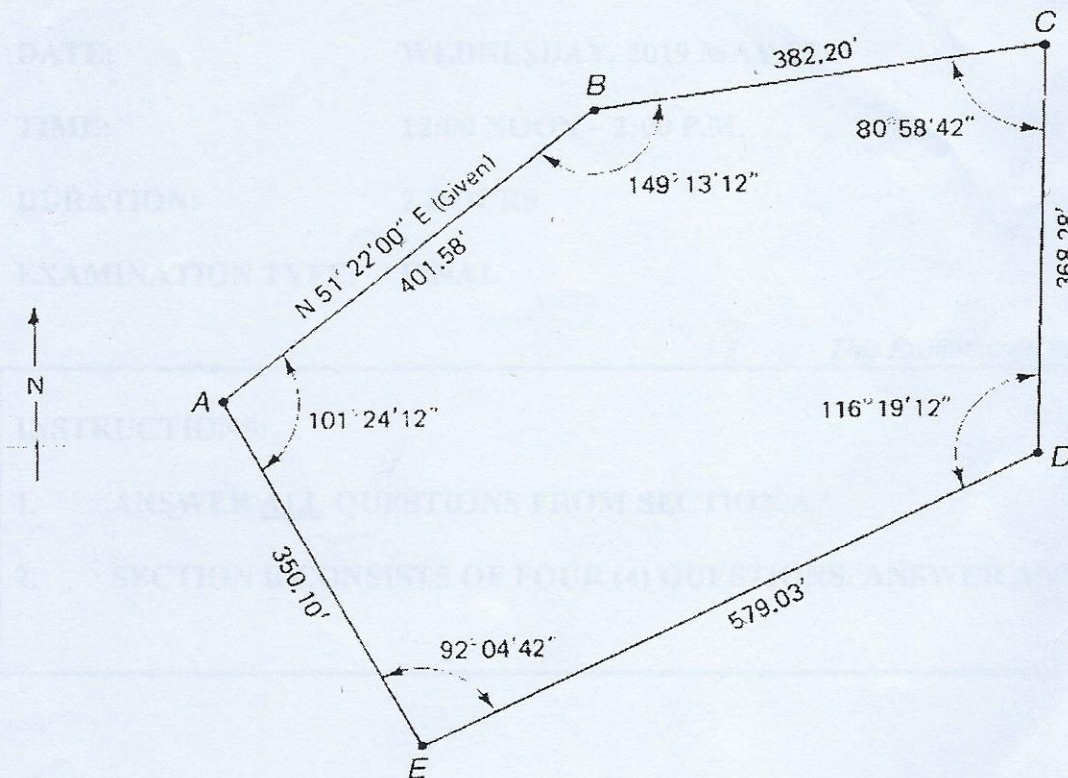
Using the information in the diagram below:

- i. Balance the angles
- ii. Calculate the allowable angular error
- iii. Calculate the all azimuths with given azimuth AB  $55^{\circ} 22' 00''$

(5 marks)

(5 marks)

(20 marks)



(Total 30 marks)

**END OF EXAMINATION**