Department of Industrial and Technology Education School of Science and Technology Education Federal University of Technology, Minna

Second Semester Examination

2019/2020 Session

Title: Land Surveying

Date: 13/07/2021

Code: ITE224

Time Allowed: 2 Hours

Instruction: Answer question one (1) and any other two (2)

- Q1a. The following series of readings were taken by 200 Level student of Industrial and Technology Education Department during the surveying exercise. Use the data to book in both rise and fall method and collimation method. Take reduce level as 36.00. Check arithmetically to ascertain the correct bookings (10 marks)
 - a. 0.77, 1.88, 1.31 & 2.43
 - b. 2.82, 2.78, 2.52 & 3.52
 - c. 1.78, 2.86 & 1.92
- Q1b. Draw and label the dumpy level that was used for the series of readings during the survey work (5 marks)
- Q1c. Outline five (5) characteristic of a closed traverse (5 marks)
- Q1d. Outline the seven (7) important points a surveyor must observed to prevent the survey work from being useless (7 marks)
- Q1e List how the different types of obstacles can readily be by-pass using principles of plane geometry. Support your answer with good sketches (3 marks)
- Q2a Define the followings
 - i. Local attraction
 - ii. Traverse
 - iii. Offset and
 - iv. Check lines. (8 marks)
- Q2b. Generally survey work consists of three (3) major components. List and explain any two (7 marks)
- Q3a. List two (2) possible errors or mistake in chain surveying. Give two (2) examples of each. (6 marks)
- Q3b what were the intentions from the survey work during ITE224? List six (6) of them (6 marks)
- Q3c Outline the three (3) major part of prismatic compass. (3 marks)
- Q4a. The entire work of survey operations may be divided into three (3) distinct stages. List them and explain. (5 marks)
- Q4b Define survey, give four (4) reason for reconnaissance (6 marks)
- Q4c Outline and explain the two (2) main methods of determining distance between two points on the surface of the earth (4 marks)

GOOD LUCK