OLABISI ONABANJO UNIVERSITY, AGO-IWOYE FACULTY OF SOCIAL AND MANAGEMENT SCIENCES DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING 2014/2015 RAIN SEMESTER EXAMINATION

Course Title:

Laboratory Techniques in Physical Geography

Course Code:

Instruction:

Answer all questions in section A and any two (2) questions of your choice in section E

Time Allowed: 2 hours

SECTION A: Compulsory (40 marks)

- 1) Assume a 25kilometre stretch river flowing at a mean velocity of 2.5 metres per second is found to have an average width of 7.5 metres and a mean depth of 525centimetres, and at the bank a 20 centilitres water jar is completely dispensed in 6 minutes. Calculate the:
 - average width-depth ratio
- total channel volume
- (iii) mean discharge
- number of times a 10-year flood may occur in a 40 year period?
- infiltration rate
- 2) Examine the importance of sampling in the field and laboratory techniques of physical geography.
 - 3) Highlight ten (10) weather observation instruments and describe any five (5) of your choice.

SECTION B: Optional (30 marks)

- 4) Describe the monitoring of fluvial and hydrological processes.
- 5) Write short notes on the field methods in the analysis of the following:

(i) Soil

- 6) Critically examine the soil profile and the relevance to human activities.
- 7) Elucidate on the significance of fieldwork in physical geography.
- 8) State and explain three (3) major approaches to vegetation studies, providing relevant examples.