

OLABISI ONABANJO UNIVERSITY, AGO-IWOYE  
FACULTY OF SOCIAL AND MANAGEMENT SCIENCES  
DEPARTMENT OF GEOGRAPHY  
2016/2017 HARMATTAN SEMESTER EXAMINATIONS  
B.Sc. Degree Examinations

COURSE CODE: GRP 311

COURSE TITLE: Biogeography

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer Question 1 and any three (3) questions of your choice.

✓ 1. (a) To which class of producer, consumer or decomposer would you assign the following organisms:  
fungus; zooplankton; tapeworm; giraffe; sunflower; termite; azotobacteria; tsetse fly;  
mealy bug; chameleon; pig; lion; earthworm; hawk; elephant grass; bee; teak; dog;  
melon; man

(5 marks)

✓ (b) Make a list of the different sorts of food you have eaten during the last twenty-four hours and classify the organisms from which they come as producers, primary consumers and so on. Are all trophic levels represented in your list? If not, can you suggest any normal item(s) of human diet which belong to the missing categories?

(5 marks)

✓ (c) Write short notes on the following:

- (i) ecological efficiency
- (ii) ecological pyramids
- (iii) trophic levels

(15 marks)

✓ 2. Examine the concept of energy relations within an ecosystem.

(15 marks)

✓ 3. Critically examine the components of the ecosystem.

(15 marks)

4. With the aid of suitable diagrams and illustrations, describe the nitrogen cycle.

(15 marks)

✓ 5. The food chains epitomize the web of life. Discuss.

(15 marks)