



NATIONAL OPEN UNIVERSITY OF NIGERIA

14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS

SCHOOL OF SCIENCE AND TECHNOLOGY

MARCH/APRIL 2015 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: BIO 306

COURSE TITLE: GENERAL PHYSIOLOGY II

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer question ONE (1) and any other THREE (3) questions

1a. Describe the relationship between osmotic equilibrium and ionic composition of marine animals. (8 marks)

b. Distinguish between transpiration and evaporation. (7 marks)

c. Give a detailed account of the following:

(i) Perception of body balance (6 marks)

(ii) Mechanism of hearing (4 marks)

2a. List the factors affecting imbibitions. (4 marks)

b. Write **short notes** on the following nitrogenous waste products:

(I) urea (4 marks)

(II) ammonia (3 marks)

(III) uric acid (4 marks)

3a. Outline the common defects of the eye. (3 marks)

b. Summarize the significance of diffusion and osmosis in osmoregulation. (12 marks)

4. Give a detailed account of the influence of physical factors on the rate of water absorption in plants. (15 marks).

5a. Enumerate the sequences of plasmolysis. (5 marks)

b. Blood is a very important component of a human's body. Discuss. (10 marks)

6a. What do you understand by the term guttation? (3 marks)

b. Explain the need for osmoregulation in animals. (5 marks)

c. Give a detailed description of the nature and functions of hormones. (7 marks)

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