



**ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATE, NIGERIA**

**FACULTY OF BASIC & APPLIED SCIENCES  
DEPARTMENT OF BIOLOGICAL SCIENCES  
SECOND SEMESTER EXAMINATION  
2016/2017 ACADEMIC SESSION**

**COURSE CODE: BIO 210**

**COURSE TITLE: GENERAL PHYSIOLOGY I**

**DURATION: 2 HOURS**

**HOD'S SIGNATURE**

**NAME:.....MAT.No:.....**

**INSTRUCTIONS: ANSWER FOUR QUESTIONS IN ALL.**

- 1a What is Osmoregulation; and how is it performed? [3 marks]
- 1b Animals are grouped according to the type of osmoregulation they performed. List the groups. [3marks]
- 1c In what ways is osmoregulation in Desert and Marine animals similar? [3 marks]
- 1d How are marine animals adapted to their environment? [6 marks]
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- 2a What is Homeostasis and why is it important to organisms? [3 marks]
- 2b What are Ectoderms and Endoderms and how would they acclimatize to new environmental temperature? [6 marks]
- 2c Compare the advantages and disadvantages of Endothermy with Ectodermly [6marks]
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- 3a Define Excretion giving the three forms of nitrogenous waste produced by animals. [3marks]
- 3b With which organs are Nitrogenous waste removed from the body of various animals? [6 marks]
- 3c What sort of waste products are produced by plants? [6marks]
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- 4a Give the meaning of Transpiration and its importance to plants. [6 marks]
- 4b Highlight the factors controlling the rate of transpiration. [9 marks]
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- 5a Why must animals take in food? List the 6 essential nutrients in food. [3 marks]
- 5b Why is water the most important part of our food? [3 marks]
- 5c i Minerals are one of the essential components of our diet, list them. [2 marks]
- ii Which food sources provide us with minerals . [2 marks]
- iii What are the functions of minerals in our body? List the deficiency symptoms of 3 named minerals. [5 marks]