

## NATIONAL OPEN UNIVERSITY OF NIGERIA

## Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Sciences Department of Pure and Applied Sciences SEPTEMBER, 2020 EXAMINATION

**COURSE CODE: BIO306** 

**COURSE TITLE: GENERAL PHYSIOLOGY II** 

**CREDIT: 2 Units** 

**TIME ALLOWED: 2 Hours** 

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

1.	<ul> <li>a. Define Osmotic pressure</li> <li>b. Osmoregulation is important in the life of an animal. Discuss!</li> <li>c. Briefly enumerate the major components of the circulatory system</li> <li>d. Highlight the factors affecting evaporative water loss in terrestrial animals</li> <li>e. List four (4) examples each of simple reflex and conditional reflex</li> <li>f. Write a note on excretory products of plants</li> </ul>	2 Marks 5 Marks 4 Marks 5 Marks 4 Marks 5 Marks
2.	<ul><li>a. What is the name and function of the hormone secreted by the placenta of h</li><li>b. Highlight the significance of diffusion</li><li>c. State the functions of trophic hormones</li></ul>	numan? 2 Marks 7 Marks 6 Marks
3.	<ul><li>a. Give two examples of blood cells</li><li>b. State the factors that affect the rate of diffusion</li><li>c. Describe osmotic responses of freshwater invertebrates</li></ul>	2 Marks 6 Marks 7 Marks
4.	<ul><li>a. Define imbibition</li><li>b. Highlight any four (4) factors affecting Evaporative Water Loss in Animals</li><li>c. Give an account of transport of materials in plants</li></ul>	1 Mark 4 Marks 10 Marks
5.	<ul><li>a. What are semi-permeable membranes?</li><li>b. List any four (4) factors that affect the rate of imbibition</li><li>c. Highlight the functions of cerebral cortex</li><li>d. How did freshwater fish overcome reabsorption challenges?</li></ul>	2 Marks 4 Marks 3 Marks 6 Marks