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## NATIONAL OPEN UNIVERSITY OF NIGERIA Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Sciences Department of Pure and Applied Sciences 2021\_1 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.	a. In a tabular form, mention the excretory organs/structures for each of the following organisms (i) <i>Amoeba</i> (ii) <i>Sycon</i> (iii) <i>Ascaris lumbricoides</i> (iv) <i>Periplanata americana</i> (v) <i>Taenia</i> sp	
		5 Marks
	b. Draw a diagram 6-8 cm of an opened stoma and label fully	6 Marks
	c. Use an arrow ONLY to indicate how water reaches the xylem of plant from the soil.	6 Marks
	d. Explain the mode of circulation of materials in earthworm	5 Marks
	e. State three differences between osmosis and diffusion .	3 Marks
2.	a. Succinctly explain the term Guttation <b>6</b> N	Iarks
		larks
		Aarks
3.	<ul> <li>a. Explain the functional characteristics of cerebrum</li> <li>b. In a tabular form, mention five (5) differences between transpiration and evaporation</li> <li>c. With annotated diagram, explain the mechanism by which NaCl is extruded from Cl Cells in the marine teleosts.</li> </ul>	
4.	b. List and explain the factors that affect evaporative water loss in terrestrial animals	5 Marks 5 Marks 5 Marks
5.	b. Enumerte the mode of excretion in a named Protozoa	4 Marks 5 Marks 6 Marks