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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 6 N	Iarks
		larks
		Aarks
3.	 a. Explain the functional characteristics of cerebrum b. In a tabular form, mention five (5) differences between transpiration and evaporation c. With annotated diagram, explain the mechanism by which NaCl is extruded from Cl Cells in the marine teleosts. 	
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