END OF TERM ONE EXAMINATIONS S1 BIOLOGY

TIME: 2HOURS

Answer all questions Circle the correct alternative in section A Write all the answers in the spaces provided in section B **Section A** 1. Which of the following branches of fungi a. Entomology c. Ecology b. Mycology d. genetics 2. The ability of an organism to respond to changes in the external environment is known as a. Development c. Metabolism d. Irritability b. Growth 3. The division of an organism into two equal places along only one plane is known as a. Symmetry c. Bilateral symmetry b. Anterior view d. Transverse section 4. One of the following organisms has radial symmetry a. Posterior c. Lateral b. Ventral d. Anterior 5. A student drew an image of a monitor lizard displaying the legs, the belly, tad and head without eyes. Which orientation did he use to draw a. Posterior c. Lateral b. Ventral d. Anterior 6. One of the following parts of the microscope controls the amount of light entering the microscope a. Eye piece c. Diaphragum b. Condenser d. Objective lens 7. The advantage of using a light microscope is that a. The specimen may be alive or b. It uses vaccum dead c. The image is black and white d. The image is detailed 8. One of the following is an example of a prolcaryotic cell a. Plants c. Fungi b. Blue green algae d. Amoeba 9. One of the following parts of the cell is found in only the plant cell a. Mitochondrion c. Cytoplasm b. Cell wall d. Cell membrane 10. Which one of the following parts of the cell controls the activities of the cell a. Cytoplasm c. Nucles d. Vacuole b. Cell membrane 11. One of the following is an example of a specialized cell found in animals

c. Parenchyma cell

d. Nerve cell

a. Palisade cell

b. Epidermal cell

12.	a.	e of the following parts of the cell is responsible Mitochondrown Cytoplasm	c.	producing energy within the cell Vacuole None of the above		
13.	Which part of the cell is found in animal cells but not in plant cells					
	a.	Nucleus	c.	Vacuole		
	b.	Ribosome	d.	Lysosome		
14.	Wł	Which one differentiates the cell membrane from the cell wall				
	a.	It is fully permeable	c.	It is rigid and strong		
	b.	It is made of protein	d.	It is made up of cellulose		
15.	The	e nucleus has the following functions except				
	a.	Controls the activities of the cell				
	b.	Contains genetic material				
	c.	Stories food for the cell				
	d.	Manufacturers ribosomes in the nucleus				
16.	Which one of the following organisms does not have a true nucleus in its cells					
	a.	Mushroom	c.	Man		
	b.	Bacteria	d.	Pine tree		
17.		One of the following is not a function of the cell wall				
	a.	. Controls movement of materials in and out of the cell				
		It gives shape to the cell				
		Provides mechanical support to the cell				
		Protects the inner parts from mechanical dama	_			
18.		he advantage of using the election microscope over the light microscope is that				
		The image of the specimen is detailed				
		The specimen may be alive or dead				
		The image is coloured				
		It uses glass lenses				
		Which part of the light microscope gives the final focus of the object				
		Objective lens	c.			
		Eye piece	d.	Final adjustment screw		
20.	. The mosquito larva breathes through					
	a.	Nostril				
		Segment				
		Head				
	d.	Spiracle				

SECTION B

21.	a) List any seven differences between plants and animals (7mks)					
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	(b) What are the importance of studying biology (3mks)					
	(a) If the magnification of an object is x0.5 and the length of its drawing is 50cm. what is the length of the object (3mks)					
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	(b) The eye piece magnification is $x10$ and the overall magnification is $x250$. What is the magnification of the objective lens (3mks)					
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	(c) List any four differences between the light microscope and the election microscope (4mks)					
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23. Draw and label a detailed internal structure of a plant cell