# END OF TERM 1 EXAMS 2019 S.1 BIOLOGY

TIME: 2Hrs 30 Minutes

NAME:				
Instructions: Attempt all questions in the all Sections. Answers in section B must be written in the spaces provided. Poor handwriting leads to loss of marks.				
	<b>SECTION A.</b> (Circle the correct of	ojective)		
1.	<ol> <li>Which of these is contained in plant cell but not in animal cells</li> <li>A. Cell membrane</li> <li>B. Cell wall</li> <li>C. Cell vacuole</li> <li>D. cytoplasm</li> </ol>			
2.	Which of the following parts of a cell is responsible A. Nucleus B. Mitochondrion	<ul><li>D. cytoplasm</li><li>for energy production?</li><li>C. Cell membrane</li><li>D. cytoplasm</li></ul>		
3.	The main function of chloroplast is to  A. Absorb sunlight energy  B. Store water for the cell	D. Cytopiasiii		
Δ	C. Remove any excretory product from the cell D. Allow respiration to occur within the cell. Which of the following feature of the cell would be:			
т.	from a plant cell?  A. Position of the nucleus B. Amount of protoplasm C. Size of the cell membrane D. Size of the nucleus.	st distiligatish ali alilihar cen		
5.	<ul> <li>Which of the following is the correct hierarchy of one</li> <li>A. Cell, organ. Tissue, system, organism.</li> <li>B. Cell, tissue, organs, system, organism.</li> <li>C. Cell, tissue, organ, organism.</li> <li>D. Cell, system, tissue, organ, organism.</li> </ul>	rganization of an organism?		
6.	The following cells have nuclei except A. Muscle cells	C. Erythrocytes		
7.	B. Leucocytes The following are organs except A. Tongue	<ul><li>D. Palisade cells.</li><li>C. Muscles</li></ul>		
8.	<ul><li>B. Stomach</li><li>Which of the following is formed from specialization</li><li>A. Cut</li></ul>	D. Brain. on of cells? C. Muscle		
9.	B. Lung Which one of the following is not a component of the	D. Liver.		

B. Centriole			Nucleolus		
10. The main function of the cytoplasm of a cell is					
A. Storage of food ar	nd water				
B. Reproduction of the	ne cell				
C. Respiration in the					
D. Allowing exchang					
11. Which of the following is			nne?		
A. Allowing exchang					
B. Enclosing the inne	-	ell.			
C. Providing shape to					
D. Enabling diffusion	_	nd out of the cel	1.		
12. Blood is referred to as a t					
A. It is in state of liqu					
B. It is made up of co					
C. It carries out seven		tinatly			
D. It's components a 13. The microscope eye piece		•	it and objective lens has a		
number x45 written on it,			it and objective lens has a		
A. X4.5 B. X10	C. X		. X450		
71.711.5 B.7110	C. 71		. 11 100		
14. Which of the following co	ontain the grea	itest number of	organisms?		
A. Phylum	υ		Class		
B. Order		D.	Family.		
15. Man belongs to phylum			•		
A. mammalian		C.	amphibia		
B. chordate		D.	animalia.		
16. The brain, spinal cord and	l nerves from				
A. System			Organ		
B. Tissue			Organism.		
17. The part of the microscope us		•			
A. Objective lens B. Eye piece C. Coarse adjustment D. Fine adjustment					
18. Which one of the following organ systems correspond to the specific function.					
<u>System</u>		<u>Function</u>			
A. Digestive system		breaki	ng down food		
B. Circulatory system		provid	ing support		
C. Skeletal system		coordin	nating the body activities		
D. Excretory system		remov	ing waste products		
19. Respiration is the release of e	nergy from the	e breakdown of	food where does it occur in		
the cells of animals and in pla	ants?				
A. Cell membrane	B. cell wall	C. Nucleus	D. mitochondrion		

A. Chromosome

C. Genetic material

	stage through the obj	ect is the		
	A. Condenser	B. Fine adjustment	C. Eye piece	D. diaphragm
21.	The instrument below instrument is called?	w is used in the laborate	ory for magnify	ring. The name of the
_		A. Magnifier		
	)	B. Hand lense		
-		C. Microscope		
		D. Forceps		
22.	Which one of the fol	lowing pair characteris	tics in living thi	ings is shown by a baby who
		and immediately withd	_	
	A. Growth, mov	ement		
	B. Sensitivity ar	d locomotion		
	C. Sensitivity ar	nd movement		
	D. Respiration a	nd excretion		
23.		lowing reflects light from		rce through the specimen
	A. Diaphragm		_	Condenser
24	B. Mirror	r inggata aan ha a hia n		Eye Piece
<i>2</i> 4.	<del>-</del>	= =		istrict. There should be an died a branch of Biology
	called?	ie insects. The officer	snould have stu	died a branch of biology
	A. entomology		C	pathology
	B. insectology			parasitology
25.	••	are organism made up		r
	A. One cell		C.	Two cells
	B. Many cells		D.	More cells
26.	The major difference	s between plant and ar	nimal cell is that	t plant cells posses
	A. Protoplasm		C. cel	llulose cell wall
	B. Tonoplasm		D. mi	tochondrion
27.	A microscope filled	with a X5 eyepiece and	l a X20 objectiv	re lens will magnify an object.
	A. X100			
	B. X25			
	C. X250			
28	D. X4 The magnification of	a drawing can be calc	ulated using the	formula
20.	A. Linear dimen	<u>-</u>	diated using the	
		sion of object		
	B. Linear dimen	•		
		sion of drawing		
		sion of drawing + line	ear dimension o	of object
		J		J

20. The part of the microscope which concentrates the light reflected by the mirror on the

- D. Linear dimension of object x linear dimension of object
- 29. Which one of the following should not be done when working with a microscope?
  - A. Pick up the microscope by its stand and main frame
  - B. Use stage clips for holding a slide
  - C. Start with the highest magnification and change to the lower one
  - D. Cover the specimen on the glass slide with a cover clip.
- 30. Which one of the following is not an organ

A. Heart C. Stomach
B. Kidney D. Muscle

### **SECTION B (Attempt all questions)**

21. (a) In the space below draw and name the parts of plant cell.(9 Marks)

(b) State the main differences between a plant cell and an animal cell.(20 Marks)

	Animal cell	Plant cell	
	Mention the difference(s) between an eukable(s) in each case.	aryotic cell and prokaryotic cell giving	
	Eukaryotic cell	Prokaryotic cell	
Difference(s)			
Evample(s)			
Example(s)			
22	. a)Write the scientific names of the following	owing organisms (5 Marks)	
i.	Man		
ii.	Cockroach		
iii.	iii. Maize		
iv.	House fly		
b) Cla	ssify the following organisms (14 Marks	)	

ORGANISM	MAN	COCKROACH	HOUSE FLY
Kingdom			
Phylum			
Class			
Order			
Family			
Genus			
Species			

23. Mention the importance of the following specialized cells. (10 Marks )

CELL	IMPORTANCE
Red blood cell	
White Blood Cell	
Sperm or Spermatozoon	
Ovum or Egg cell	
Root hair cell	
Guard cell	
Palisade cell	
Nerve cell	

Osteoblast	
Muscle cell	

### 24. Complete the table below (2 marks)

Eye piece lens	Objective lens	Magnification
X15	X7	
X60		X240
X17		X340
X25	X8	

## **SECTION C (Attempt all questions)**

- 25. Define the characteristic of living things. (7 Marks)
- 26. Define any ten branches of biology. (10 Marks)
- 27. Mention the economic importance of bacteria. ( 7 Marks )

#### **END**