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Time. 1 ½ hrs.	

BIOLOGY DEPARTMENT.

MID TERM 2 EXAMINATIONS 2022.

S.1

Time. 1 ½ hrs.

INSTRUCTIONS.

- Attempt all questions.
- Present your work smartly.
- •Use of diagrams where necessary carries extra marks. Diagrams must be drawn only in pencils.

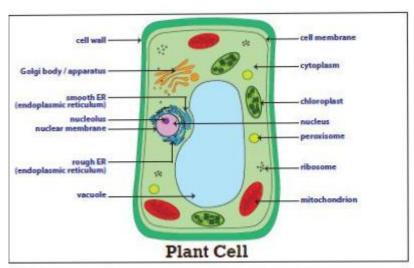
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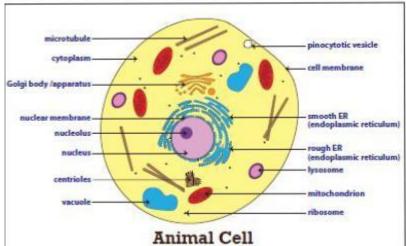
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- 1. Biology is the natural science that is concerned with study of living organisms; divided into many specialised fields ranging from; botany, zoology; conservation; ecology; marine biology; medicine; microbiology; physiology; genetics; evolution; anatomy; cytology; taxonomy and many fields.
 - (a) Match the following fields of biology on the left hand side to what each field is concerned about on the right hand side. (10 mrks)

each field is concerned about on the right hand side. (10 mrks)			
Field(branch) of biology.	What the branch is concerned about		
• Zoology.	 Protection of nature and earth's 		
	biodiversity.		
• Ecology.	•Structural organisation of living		
	organisms.		
• Physiology.	•Classification of living organisms.		
•Marine biology.	•Study of cell science.		
	•Study of animals.		
•Botany.	Study of very smallest living		
	Organisms that can't be seen by our		
•Conservation.	naked eyes.		
•Microbiology.	•Study of plants.		
•Anatomy.	•Study of life in large water bodies.		
•Cytology.	Functioning and activities of life.		
•Taxonomy.	Study of interrelationship of		
	Organisms and their environment.		

2. A cell is a smallest basic unit of life. An animal cell and plant cell differ in structure. Use the diagrams and answer the questions that follow.



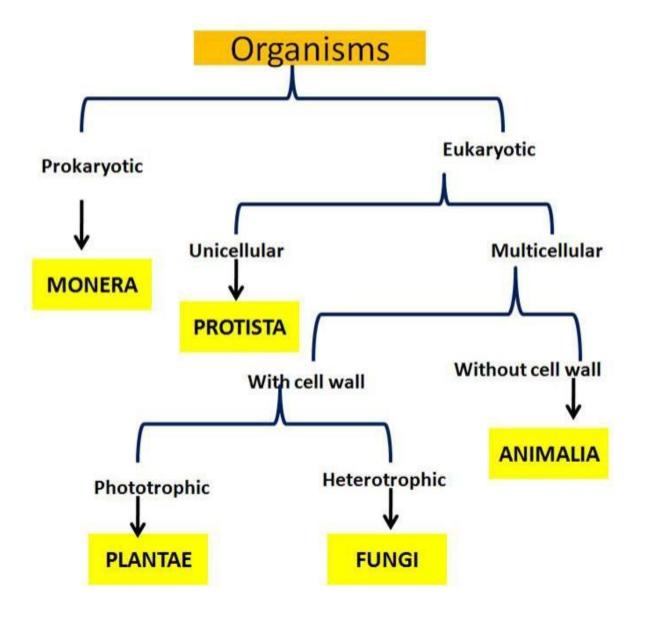


broken down to release energy in the body is			
found in both plants and animals; which serves as a medium where most of cell activities take place.			
separates the content of the nucleus from the cytoplasm.			
is found only in photosynthesizing plant cells; which			
contains a green pigment called			
(b)Using only the information in part(a);			
(i) State the similarities between a plant cell and animal cell. (04 marks)			
(ii)State the differences between a plant cell and animal cell. (Use a table)			
(03 marks)			

9	sperm cell; nerve cell; white blood cell; red blood cell; ciliated ovum cell are related to their functions " As a S.1 student; distanced to their functions are related to their functions are related to their functions are related to their functions are as S.1 student; distanced to the statement.	d cell and
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3.After studying different kind of organisms; a group of S.1 students came up with chart below showing the classification of organisms.



(a)Distinguish between the following terms.	
(i) Prokaryotic and eukaryotic organisms.	
(ii) unicellular and multicellular organisms.	
(iii)Phototrophic and autotrophic organisms.	(02 marks)
(b)State the level of classification of organisms showed in the char	
	(01 mark)
(c)Identify the different five groups of the level of classification sho	(05 marks

(d)Using the chart; state the group of level	of classification to which the
following given organisms belong.	(05 marks)
(i) Mushrooms; toad stool and yeast.	
(ii)Maize; soya peas and ferns.	
(iii)Amoeba; euglena and spirogyra.	
(iv)Earth worms; snail; fish, lizard; ka	ngaroo
(v)Bacteria	
(e)As a biology student; state two reason	s why S.1 students need to study
classification of organisms.	(02 marks)
End.	
@H.S.R	