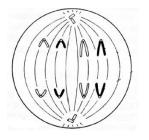
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S.3 BIOLOGY ASSESSMENT TEST 3					
TIME: 90 MINUTES INSTRUCTIONS: Attempt all qu	estions.				
SECTION A					
1. If a plasmolysed plant cell is transferred into water. What is likely to happen to the	cell if it is				
left in water for 1½ hours?					
A. It will lose water to the surrounding and decrease in size.					
B. It will absorb water from the surrounding and increase in volume.					
C. It will not experience any change in size.					
D. The vacuole will shrink and disappear altogether.					
2. Phagocytosis is a process wherebyA. white blood cells ingest and destroy bacteria.					
B. white blood cells cause the bacteria to stick together.					
C. red blood cells dissolve the outer coats of invading bacteria and so destroying	g them.				
D. antibodies fight antigens.					
3. A man's urine gave a positive test with Benedict's solution. What is the best deduction	on about this				
man?					
A. He had been eating a lot of sugar					
B. There was too much insulin in his blood					
C. He was suffering from diabetesD. There was too much glycogen in his blood					
4. Which one of the following sets of organisms belong to the same group?					
A. Butterfly, beetle and starfish. C. Scorpion, mite and spie	der				
B. Crab, tapeworm and liver fluke. D. Jelly fish, slug and spid					
5. Which of the following parts of a plant cell provides shape and rigidity?					
A. Protoplasm B. Nucleus C. Cell wall D. Cell membra	ıne				
6. Lack of Iodine in the human diet causes					
A. Anaemia B. Goiter C. Scurvy D. Rickets					
7. Which of the following farming practices would control soil erosion?					
A. Application of artificial fertilizers. C. Terracing					
B. Addition of compost manure D. Mixed farming.					
8. The results of an experiment to determine the percentage of humus in a soil samp	ole are shown				
below.					
$Mass\ of\ crucible = 20g$					
Mass of crucible $+$ soil $=40g$					
Mass of crucible + soil (after drying) = $33g$					
Mass of crucible + soil (after heating to red hot) = $30g$					
What is the percentage of humus in the soil sample? A. 85.7 B. 33.0 C. 8.8 D. 15.0					
9. Which one of the following takes place by the process of active transport in plants?					
A. up-take of water C. intake of CO_2					
B. Transpiration D. uptake of mineral salts					
1 Page THE AUTHOR OF BIOLOGY TOPICAL REVISION B	BOOKS				

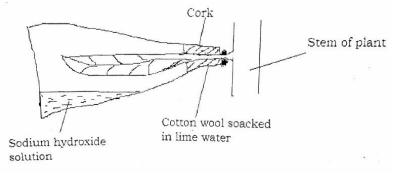
- A. Height
- B. Blood groups
- C. Weight
- D. Skin colour
- 20. What stage of cell division is represented in the figure 2 below?



- A. Anaphase
- B. Prophase
- C. Metaphase
- D. Telophase
- 21. Which one of the following is the correct sequence of events that occur during mitosis?
 - A. Prophase, metaphase, anaphase and telophase.
 - B. Prophase, anaphase, metaphase and telophase.
 - C. Metaphase, anaphase, telophase and prophase.
 - D. Telophase, anaphase, metaphase and prophase.

SECTION B

1. The figure 3 below shows an experimental setup to investigate the conditions for photosynthesis. The plant is in light but was previously kept in the dark for 24 hours.



(a) Which condition is being investigated

(01 mark)

- **(b)** Why;
 - (i) Is it necessary to keep the plant in the dark overnight?

(01 mark)

(ii) Is the leaf attached to the plant?

(01 mark)

(c) What is the purpose of sodium hydroxide in the flask?

(01 mark)

(03 marks)

(d) Explain how the factor being investigated affects the rate of photosynthesis.

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(e) Apart from that factor being investigate	ed, state three other factors affecting the rate of
photosynthesis.	(03 marks)
	half filled with concentrated sugar solution containing
and immersed in a beaker containing dist the water in the beaker turned blue and vis	well to prevent leakage. It was rinsed with distilled water illed. The setup is shown in figure below. After 6 hours, king tubing was swollen with more solution. Visking fubing Sugar Solution (blue in Colour) en with solution at the end of the experiment. (04 marks)
(b). Name the process through which Water in	the beaker turns blue (01 mark)
(c). Distinguish between cytosis and active tra	ansport. (02 marks)
(d). State 3 roles of active transport in the hun	nan body. (03 marks)

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3. (a) What y	you uı	nderstand by the terms:	
	(i) 	Continuous variation	(01 mark)
	(ii)	Discontinuous variation	(01 mark)
	 (iii)	Meiosis	(01 mark)
	 (iv)	Mitosis	(01 mark)
(b)	Whei	re do meiosis and mitosis occur?	(02 marks)
		vo examples of characters which exhibit; inuous variation	(02 marks)
		ontinuous variation	(02 marks)
1. (a) Describ	e the	SECTION ${f C}$ chemical digestion of proteins as food passes along the alimentary can	_
7 7	_	educts of digestion of starch and proteins utilized by the human body? adaptations of the villi for their function. END!!!!	(06 marks) (04 marks) (05 marks)
		"What men have done, men can do"	
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