	SHUA 2021 E:		0750138204 (WhatsApp)				
		S.3 BIOLOGY	IUM SCIENCE CAFE NOVEMBER ASSESSMENT TEST ION & CELL DIVISION & GENETICS				
TIME: 90 MINUTES			INSTRUCTIONS: Attempt all questions.				
	SECTION A						
	The chamber of alled	the herbivore stoma	ch from which food is returned to the moth for rechewing is	\neg			
A	A. Omasum	B. Abomasum	C. Rumen D. Reticulum				
	_	anism the bile duct w d happen as a result o	vas blocked so that the flow of bile was cut off. Which of the				
	_		would not be possible	_			
	_	portal vein would no					
	•	t tats and oils would it ion of digested food	not proceed normally				
	_	-	esults in an experiment to determine the amount of ascorbic				
	icid.						
(Fruit juice	r different fruit juices Macorbic acid	S F, G,H and I using 0.15% DCPIP No. of drops needed to decolorize cm ³ of DCPIP				
			•				
	F	0.20	21				
	G	0.60	7				
	Н	N	30				
	I	0.30	14				
			c acid content of fruit juice H given as n?				
	A. 0.36% Although saliva	B. 2.57%	C. 0.14% D. 0.63% er with food, digestion of starch which is started in the mouth				
	-		long. This is because				
		ach there is mostly ab		\neg			
	_		is not suitable for action of enzymes in the saliva.				
	•		ning of food and digestion.				
		•	t in a dark room for about 48 hours with one of its leaves				
_	•	_	sodium hydroxide. Then the whole plant was left in bright				
		art of leaf enclosed w	hich was partly enclosed in the flask was tested for starch. the ithin the flask was	\neg			
	A. Blue-black	B. Green	C. Colourless D. Yellow-brown				
	A man's urine g nan?	gave a positive test w	rith Benedict's solution. What is the best deduction about this				
ľ		en eating a lot of sug	ar				
B. There was too much insulin in his blood							

	D. There w	as too muc	om diabetes h glycogen in his b human diet causes	lood	0750138204 (WhatsApp)
7.	A. Anae		B. Goiter	C. Scurvy	D. Rickets
8.	Which one A. Heig		wing human charac B. Blood groups	eteristics exhibits disc C. Weight	ontinuous variation? D. Skin colour
9.			9 1	in the figure 2 below	?
				B. P. C. M	naphase rophase Ietaphase elophase
10	A. Burst ch B. Remove	loroplasts coloured r	naterial in a leaf	, the leaf is boiled in a	alcohol in order to
	D. Soften to		ons of starch with Io	odine.	
11	. Which one A. Water is		wing statements is	NOT correct about pl C. oxygen	hotosynthesis? is a by-product
12	B. Sugar is 2. The hardest	_	tooth is;	D. Carbon	dioxide is produced
13	A. Enamel 8. What is the	main funct	B. Dentine ion of the phloem i	C. Pulp cavity n green plants?	D. Gum
	A. Tran	sporting wa	ater.	C. Transport	ing mineral salts. ing manufactured food.
14	Photosynthe Which of th	esis is said lose is the c	to have a pair of racorrect set?	w materials, a pair of	conditions and a pair of products.
	B. Water a	nd Carbon	dioxide, light and C	sugar, water and chlo Chlorophyll, Oxygen a	and Sugars
		•		Chlorophyll, sugars an gen, Carbon dioxide	• •
15	5. Which one A. Prop	of the follo hase, meta _l	wing is the correct phase, anaphase and	sequence of events th d telophase.	at occur during mitosis?
	C. Meta	phase, ana	nase, metaphase and phase, telophase an	d prophase.	
	D. Telo	pnase, anap	ohase, metaphase ar SEC	TTION B	
1. (a) What you u		by the terms:		
	(i)	Continuo	ous variation		(01 mark)

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(ii)		
(iii)	Meiosis	(01 mark)
(iv)	Mitosis	(01 mark)
, ,	re do meiosis and mitosis occur?	(02 marks)
	vo examples of characters which exhibit; tinuous variation	(02 marks)
	continuous variation	(02 marks)
	A B C	
A(b) What food s	arts labeled A-D	(02 marks)
(ii) C? (c) State two fa	ctors that make a villus an effective absorbing structure.	(02 marks)
(d) Give the blo	ood vessel into which structure b (i) carries its contents	(01 mark)
	of the alimentary canal has the highest number of the structure above?	

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(f) State four adaptations of the part of the alimentary	v canal in the figure above to its functions. (04 marks)
••••••	
3. The diagram below shows a cross section of a typical	leaf
(a) Name the layer labeled A to D A	(02 marks)
B	D
(b) Which of these layers has the highest rate of photo	
	(02 marks)
(c) Give three differences between layers B and C.	(03 marks)
Layer b	Layer c
(d) Using evidence from the diagram, describe how the photosynthesis.	ne structure of a leaf is suited for (04 marks)

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•••	(e) What is the importance of wax on layer (a)?	(01 mark)		
 4.	A plant with yellow leaves was crossed with a plant with green leaves. The gent is recessive to that of green leaves. Using genetic symbols	e for yellow leaves		
	(a) Show the possible genotypes and phenotypes of the F_1 offspring.	(05 marks)		
• • •				
•••				
• • •				
	(b) (i) What is the genetic ratio if F1 is selfed? Show your working.	(05 marks)		
• • •				
• • •				
•••				
• • •				
•••	(ii) What is the phenotypic ratio of F2?	(01 mark)		
• • •				
	END!!!!			

"What men have done, men can do"

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