231/3 BIOLOGY PAPER 3 - MARKING SCHEME

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1.	(a)	Test	Procedure	Observation	Conclusion	Tea
		lodine solution	Add iodine solution to solution L	Colour changes to blue-black	Starch is present	
		Benedicts solution	To the test solution, add Benedicts solution	5 1		
			Heat	Rej – Reddish - Red	Rej. Specific sugar given or simple sugar	
	(b)	Test	Procedure	Observation	Conclusion	
		lodine solution	Add iodine solution to solution L	No change in colour or Brown colour of iodine retained.	Starch absent	
		Benedicts solution	To the liquid from the beaker add Benedicts. Heat.	Yellow/orange/Brown colour	Reducing sugar present	
	(C)) tubing is semi-permeable ough but not large molecul		lowing small molecules of re	educing sugar
	(d) (e)	Diffusion - Ileum wall - Proximal - Lungs	convoluted tubule			
	(f)	Ultra filtratAbsorptio				

Omnivorous (a) (b) (i) Molar (ii) Pre-molar (iii) Canine H – Enamel (C) J – Neck (d) Ш 1 Tooth II has flat top/ridged Chisel shaped top

(d) Biting/cutting

(f)

(b)

3.

$$\left[i\frac{2}{2}c\frac{3}{3}pm\frac{2}{2}m\frac{3}{3}\right]_{\times 2 = 32}$$

(g) Used more for chewing/has greater contact with food particles // is flat broad ridged/cusped hold food remains.

- (a) Any three mark clockwise.
 - (i) Epigeal germination
 - (ii) Cotyledons above the ground/soil level.
- (c) K In the dark/absence of light/Dark cupboard.
 - L Normal condition/in light/place open with light OWTTE.
 - M Unilateral/unidirectional light/receive light from one direction.

(d)		К	L
	1.	(Pale) yellow plant/leaves/stem	Green plant/leaves/stem
	Ζ.	Small/tiny/rudimentary leaves.	Large/big leaves.
	3.	Long stem/hypocotyl/tall plant/ long	Short stem/hypocotyl/plant
		internodes.	internode
	4.	Thin/slender stem	Thick stem/stout stem
	5.	Weak/feeble/limp stem	Firm/steady/strong stem.

(e) Etiolation.

(f) +ve phototropism^{For more FREE KCSE Mocks, Notes, Exams, and Past Papers Visit https://Teacher.co.ke/notes/}

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