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## BIOLOGY-231/3 PAPER 3 (PRACTICALS) MARKING SCHEME

1.	(a)	Α	Rough endoplasmic reticulum	rej ER
	C	C	Nuclear membrane	
		_		

D Mitochondrion Rej Mitochondria

(b) В Contains hereditary materials chromatids acc. Controls activities

E Protein synthesis

F Allows passage of materials into and out of nucleus

Has tubular channels which allow for transport (c) A

> D Has cristae which provide large surface area for attachment of respiratory enzymes

(d) 1cm =100 microls

(e) Protein synthesis

A abundance of rebosomes (reason tied to activity)

2. Q Anther (a)

> R style

S stigma

X calyx (setial)

X (b) -protects inner part of flower during bud development

> R -holds stigma in position for pollination;

> > -passage for male gametes after pollination as they move to ovary for fertilization;

poly petalous/tree petals; (c)

Brightly coloured;

(d) gamosetiosepalous;

(e) Hypogynous

Dicotyledonae (f)

It has five (5) anthers

Insects (g)

> Brightly coloured to attract insects (i) Marginal





3. (a)

Food substance	Procedure	Observation	Conclusion
Reducing sugars	Put 2ml of solution N in	Benedicts colour	Reducing sugar absent
	a test tube.	retained	
	Add 2ml of Benedicts	No observation colour	
	solution heat to boil.	change	
Non reducing sugar	Put 2ml of solution N	Colour changes from	Reducing sugar present;
	in a test tube	blue, green yellow	
	Add 3 drops of HCl heat	orange;	
	to boil for 3 minutes		
	Add NaHCO <sub>3</sub> until		
	fizing stops (No of		
	drops added must be		
	specified.		
	Add 2ml of Benedicts		
	solution .Heat to boil		
Lipids	Put 1cm <sup>3</sup> of solution N	No white emulsion	Lipids absent
	in test tube .	formed	
	Add 4 ml of ethanol and		
	shake		
	Transfer this content		
	into another test tube ½		
	full of water and shake;		7

This was not wise because be body does not use or stored excess amino acid. (b) It will have to be deaminated.