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231/3 – BIOLOGY (PRACTICAL) PAPER 3 MARKING SCHEME

1.	(a)	Food substance	Procedure	Observation	Conclusion Tea
		Reducing	Put food substance in T.T		Reducing sugar
		sugar;	Add equal amount of Benedict's	Orange colour;	present;
			solution. Heat gently;	_	
		Proteins;	Put food substance into a T.T.		
			Add equal amount of NaOH.	Purple;	Proteins
			Followed by CuSO ₄ dropwise;		present;

- (b) (i) Diffusion;
 - (ii) Blue/black colour;
 - (iii) Iodine molecules diffuse from the beaker into the visking tubing; due to their small sizes pass through pores of visking tubing; starch molecules are large in size; hence retained in the visking tubing;
- (a) Division Spermatophyta;
 Reason They are flowers from flower bearing plants;
 - (b) Agents Animals/Insects;Reason Stigma above anthers/Anthers enclosed by corolla;

(c)	A ₁	A ₂	
	Stigma single lobed	Stigma with many lobes;	
	Placenta marginal	Placenta axile;	
	Androecium and gynaecium enclosed in keel (modified petal)	Androecium and gynaecium expose;	(Any two correct)

- (d) (i) J-Petal;
 - K Ovule;
 - R Receptacle;
 - M Anthers;
 - (ii) Chemotropism;
- (e) Multi-lobed stigma (5 lobes);

Partly fused anthers (acc. No is counted);

Poly sepalous (free sepals);

Superior ovary;

3. (a) Vegetation;

Reason: Large caecium and appendix;

- (b) S Appendix;
 - T Colon;
 - U Rectum;
- (c) (i) On the diagram.
 - (ii) Secrete cellulose enzyme that digests cellulose into glucose;
- (d) (i) Long to increase surface area for digestion and absorption;
 - (ii) Coiled to slow down movement of food hence more time for digestion and absorption;
- (e) Salivary amylase;

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