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BIOLOGY PAPER 3

MARKING SCHEME



Diet

- 1. (a) P Fresh
 - O Presence of canines which are long and curved.
 - Strong jaw muscles
 - M-Vegetation
 - Diastema
 - Chisel shaped incisor teeth
 - b) C Carnassial tooth
 - J Incisor tooth
 - c) Moves the jaws up and down by snapping; hence killing the prey
 - d(i) Diastema
 - ii) Aid the tongue in turning of grass and also moving the food during grinding;
 - e) They are well comouliflaged (i.e. their body colour matches that of surrounding) hence predator not easily noticed by prey until it is too late; or prey not seen by the predator easily hence survives the attack hence avoid predation.
- 2.a) G Thigmotropism / haptotropism
 - I Nastic
 - S-Haptonasty
 - b) S Provide nitrogen ion / elements when digested
 - T Help in pollination
 - c) A -Stamen
 - B Carpel
 - C Ovary / ovule
 - D Receptacle
 - d) Hypogynous ovary / superior ovary
 - e) The tendril comes into contact with a stem / hard object; the contact causes lateral migration of Auxins hence lowering its concentration; than the outer part, higher Auxin concentration promotes faster growth in the shoot outer part; continuous growth makes tendril to coil round the object;





Food being	Procedure	Observation	Conclusion
tested			
Starch;	To solution X in a test	Colour change to	Starch present in
	tube add iodine solution	blue-black	solution
Reducing sugar	To solution X in a test	Colour change from	Presence of reducing
	tube add benedicts	blue, green, yellow,	sugars in solution X
	Solution and heat / warm	orange, red	
	/ heat the mixture as you	precipitate;	
	observe		
Ascorbic acid /	To DCPIP in a test tube	Blue colour of DCPIP	Absence of vitamin C
vitamin C	add solution X drop wise	remains unchanged;	/ ascorbic acid in
	as you observe;		solution X

(9marks)

b(i) Oxidized to produce energy;

Converted into glycogen for storage when in excess (2marks)

ii) Photosynthesis (1mark)



