Question number	Answer		Notes	Marks
1 (a)	leaf;			1
(b)	made from <u>tissue(</u> function / eq;	<u>(s)</u> + perform a specific		1
(c)	cell wall;	<pre>bed and labelled correctly: 5 to 6 correct = 3 3 to 4 correct = 2 1 to 2 correct = 1</pre>	ignore mitochondria and ribosomes	3

Question number	Answer	Notes	Marks
2(a)(i)	tissue(s) that carry out (same) function / <u>different</u> cell types that carry out (same) function / eq;		1
(ii)	heart;		1
(iii)	 n vous / CNS; br thing / respiratory / ventilation; d estive; cretory / urinary; keletal; en crine / hormonal; 		3 max
(iv)	reproductive / immune / lymphatic;		1

Process	Name of organ	
ultrafiltration	kidney;	
ventilation	lung;	
secretion of insulin	pancreas;	
secretion of hydrochloric acid	stomach;	
bile production	liver;	

Total 11 marks

	Question number	Answer		Notes	Marks		
3	(a)						4
				Level			
		Example	organelle	organ	system		
		nucleus	(√)				
		circulation			✓;		
		chloroplast	√;				
		leaf		√ ;			
		bulb		✓;			

Question number	Answer		Notes	Marks
3 (b)	Order smallest	Structurered blood cellwhite blood celleyekidneyliver;;	5 = 2 marks 3 = 1 mark	2

(Total for Question = 6 marks)

Question number		Ansv	wer	Notes	Marks
4 (a)		Illness	Organ needed to cure illness		5
		uremia emphysema coronary failure diabetes hepatitis poor vision	(kidney) lung(s) heart; s; liver; cornea(s);		
(b)		b le; emulsifies / large dr / eq; neutralise / optimur			2
(c) (i	i)	genetically / gene / identical / same / e	ignore similar	2	
(i	ii)	lots / no shortage / supply / always ava		2	
		no rejection / match body / eq; no problems with re		allow ref to blood type	

TOTAL 11 MARKS

Question number	Answer	Notes	Marks
5(a)(i)	 <u>up</u> r epidermis; tr sparent / lets light through / no chloroplasts; 	waxy cuticle is transparent = 1	2
(ii)	 p isade; d sely packed / aligned vertically / eq; i a of <u>many / lots</u> of chloroplasts; sorb / take in / trap light; 	ignore lots of chlorophyll	3 max
(iii)	 ongy; <u>a</u> spaces; ffusion / movement of gases / gas exchange / eq; xylem vascular bundle; tr sport water; 	Ignore phloem	3 max
(iv)	 gua cell; op / close; let in carbon dioxide / water loss / transpire / evaporate / eq; 	Ignore stomata Ignore gas exchange	2 max
(b)	 lo r surface in water / upper surface exposed to air; allows carbo dioxide in; allows transpiration / evaporatio / water loss / eq; 	Ignore gas exchange Allow converse for Mps 2 and 3	2 max
(c)(i)	20;		1
(ii)	fewer/no stomata / holes / pores / guard cells;		1