

9.	Question	Marking details	Marks Available
	4 (a)	Removal of waste;	1
	(b) (i)	68;	1
	(ii) I	The salts enter urine/ excreted/ some are reabsorbed;	1
		II Concentration increases;	2
		Because water intake lower and percentage of intake that passes into urine is lower'/ because the volume of urine is lower;	

10.	Question			Marking details	Marks available						
					AO1	AO2	AO3	Total	Maths	Prac	
5	(a)			ureter (carries urine out of kidney) correct spelling	1			1			
	(b)	(i)		Urea		1		1			
		(ii)		Less protein {in blood /leaving kidney}/ owtte (1) No change in glucose concentration/ owtte (1)			2	2			
	(c)			Any three (x1) from: 1. Survival declines with years after transplant 2. People survive longer with transplants from living donors 3. People survive longest with transplants from relatives/family 4. <u>Difference</u> between family donors and others increases with years after the transplant			3	3			
	(d)			Dialysis (not kidney machine, unqualified)	1			1			
				Question 5 total	5	2	5	12	0	4	

Question Number		Sub-section	Mark	Answer	Accept	Neutral answer	Do not accept
FT	HT	(a) i	2	X = <u>Renal</u> artery; Y = <u>Renal</u> vein;	Afferent/ efferent		
		ii	1	Clots would clog the pump/ stop blood flow/ prevent blockage;			
		iii	1	Diffusion/ ultrafiltration;			
		iv	1	{maintains/ increases} concentration gradient/ allows { <u>maximum/greatest</u> } rate of diffusion or removal of waste;			
		(b)	1	Have a kidney transplant;	peritoneal dialysis		
		Total Mark	6				