Question number	Answer	Notes	Marks
1	<u>nucleus</u> from body cell / <u>nucleus</u> from adult cell / <u>nucleus</u> from adult / eq; egg / ovum; remove nucleus (from egg) / enucleate (from egg); nucleus into (empty) <u>egg</u> cell; electricity; <u>mitosis;</u> <u>embryo;</u> uterus / womb;		Max 5
	<u>surrogate</u> (mother);	Total	5

Question number	Answer	Notes	Marks
2	 <u>nucleus</u> from (adult) sheep put into empty egg cell / enucleated egg cell / eq; 	Mp1 ignore DNA / gene / plasmid	max 5
	2. electricity;		
	3. mitosis / cell division;		
	4. embryo;		
	5. uterus / womb;		
	6. <u>surrogate</u> ;		

Total 5 marks

Question number	Answer	Notes	Marks
3 (a)	 select high milk yield cow/mother/cattle/ones/ male on basis of mother's or daughters milk yield / eq; 	Allow two cows with high milk yield	
	2. breed / reproduce / mate / eq;		
	3. use offspring with high milk yield;		
	4. repeat process / many generations / eq;		3
(b) (i)	uterus / womb;		1
(ii)	 identical / no variation / all have same characteristic / eq; 	more that are identical = 2	
	2. faster process / quicker process / eq;		
	3. more produced;	ignore yield	
	 no need for mating / no need for two parents / no need to keep bull / no need to keep female /eg; 	ignore cost	3
(c)	genetically; identical;	same DNA = 2	2
(d)	mitosis;		1

(Total for Question = 10 marks)