Puberty and Menstrual Cycle MS

QUESTION 1

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	pituitary		1
b)	ovary		1
Total marks			2

QUESTION 2

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)i)	any one from:	allow substance / material which	1
	chemical messenger /	is a messenger	
	message	allow material produced by a	
	chemical / substance produced	gland	
	by a gland		
	chemical / substance		
	transported to / acting on a		
	target organ		
	chemical / substance that		
	controls body functions		
a)ii)	gland / named endocrine gland	brain alone is insufficient	1
		allow phonetic spelling	
a)iii)	in blood / plasma or circulatory	accept blood vessels / named	1
	system or bloodstream	do not accept blood cells / named	
b)	FSH stimulates oestrogen	each hormone must be linked to	1
	(production) / egg maturation /	correct action	
	egg ripening	apply list principle	
		ignore the gland producing	
	oestrogen inhibits FSH	hormone	1
		ignore production / development	
		of egg	
	LH stimulates egg / ovum	allow oestrogen stimulates LH /	1
	release / ovulation	build up of uterine lining	
		accept LH inhibits oestrogen	
		accept LH controls / stimulates	
		growth of corpus luteum	
		ignore production of egg	
Total marks			6

QUESTION 3

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
а	any four from:		4
	₹ cells used to treat diseases do		
	not go on		
	to produce a baby		
	₹ produces identical cells for		
	research		
	₹ cells would not be rejected		
	₹ allow cells can form different		
	types of		
	cells		
	₹ (immature) egg contains only		
	genetic		
	information / DNA / genes /		
	chromosomes from mother or		
	there is		
	only one parent		
	₹ asexual / no mixing of genetic		
	material		
	/ no sperm involved / no		
	fertilisation or		
	chemical causes development		
	₹ baby is a clone	allow ethically wrong	
	₹ reference to ethical / moral /	NB cloning is illegal gains 2 marks	
	religious		
	issues	ignore unnatural	
	₹ risk of damage to the baby	in correct context	
Total marks			8

QUESTION 4

QUESTION ANSWER EXTRAINFORMATION MARKS		QUESTION	ANSWER	EXTRA INFORMATION	
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a)i)		mark each line from left hand	3
	A B	box	
	Used in some contraceptive pills to stop eggs maturing Used as a fertility drug to make eggs mature. LH Causes the lining of the womb to break down Oestrogen Stimulates the release of eggs in IVF	two lines from left hand box cancels mark for that box	
b)i)	implant		1
b)ii)	any one from: lasts for 5 years / long(est) cannot forget to take / replace it / lose it (hormone) there all the time	allow explanation for their method in (b)(i)	1
		ignore expense ignore STDs ignore side effects	
b)iii)	any one from: needs surgery / operation painful infection	accept correct disadvantage for wrong method in 5bi allow it could go wrong	1
	have to wait five years for a child or more difficult to have a change of mind	ignore expense ignore STDs ignore side effects	
Total marks			6

QUESTION 5

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)i)	ovaries / ovary	allow placenta	1
a)ii)	any one from:inhibits follicle stimulating hormone / FSH productioninhibits maturation of eggs	ignore ref to site of production of FSH allow stimulates LH production or stimulates preparation of womb lining	1
a)iii)	any one from: stimulate muscle growth • used in (oral) contraceptives		1
Total marks			3