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Menstrual Cycle and Pregnancy

Question Paper

Level	Edexcel
Subject	Biology
Exam Board	GCSE(9-1)
Topic	Animal Coordination, Control and Homeostasis
Sub Topic	Menstrual Cycle and Pregnancy
Booklet	Question Paper

Time Allowed: 38 minutes

Score: /31

Percentage: /100

1	Infertil	ity	can be treated by increasing the chance of ovulation occurring.	
	Ovulat	ion	is controlled by hormones.	
	(a) (i)	Со	mplete the sentence by putting a cross (🗵) in the box next to your answer.	
		Th	e hormone that stimulates the maturation of follicles in the ovary is	(1)
	×	Α	FSH	(1)
	×		LH	
	×		oestrogen	
	×		progesterone	
	(ii)		ertility treatments, including the use of hormones, can stimulate ovulation.	
	,		olain one disadvantage of treating infertility by using hormones to	
			mulate ovulation.	(2)
				(2)
	(iii)	Co	mplete the sentence by putting a cross (🗵) in the box next to your answer.	
		Ov	rulation during pregnancy is prevented by high levels of	(4)
		Λ	FSH	(1)
	X			
	X	В	LH	
	×	C	insulin .	
	\times	D	progesterone	

(i)	Explain how managinal antihodies are used to test for programs	
(1)	Explain how monoclonal antibodies are used to test for pregnancy.	(3)
		(-)
(ii)	The use of monoclonal antibodies to treat cancer has advantages over the use of traditional shametherapy and radiotherapy.	
	of traditional chemotherapy and radiotherapy.	
	Explain the benefits of using monoclonal antibodies to treat cancer.	
		(2)
		•••••
(iii)	Name the type of cell that produces the monoclonal antibodies used to treat	
(iii	Name the type of cell that produces the monoclonal antibodies used to treat cancer.	
(iii		(1)

2 Blood tests can be used to check a person's blood glucose and hormone levels.

Figure 4 shows the results of two blood tests carried out on three people to check their blood glucose levels. Person 1 is healthy.

	blood glucose level (mmols/l)		
	after fasting for 12 hours	two hours after drinking 75 g glucose	
person 1	5.4	6.4	
person 2	5.6	9.0	
person 3	7.8	12.1	

Figure 4

(a)	(i)	Compare the glucose levels of person 1 with the glucose levels of person 2 after fasting for 12 hours.	(1)
	(ii)	Compare the glucose levels of person 3 with the glucose levels of person 1, two hours after drinking 75 g glucose.	(1)
	Per	rson 3 cannot produce the hormone that controls blood glucose levels.	
	(iii)	State the hormone that person 3 cannot produce.	(1)

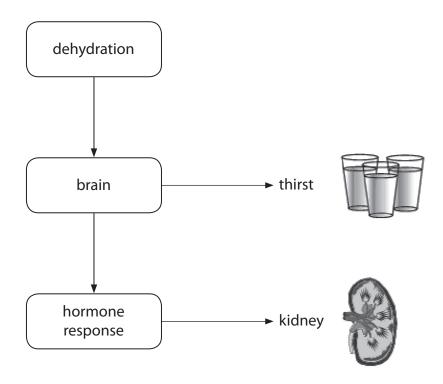
(b) Figure 5 shows the level of progesterone for a female during five different stages of the menstrual cycle.

days in the menstrual cycle	progesterone level (nmol/l)
1–9	1.85
10–14	1.48
15–17	14.28
18–23	35.27
24–28	17.11

Figure 5

(i)	Describe the changes in progesterone levels during the 28-day cycle.	(2)
(ii)	Explain why progesterone levels changed following day 14.	(2)
(iii)) Use Figure 5 to explain if the female is pregnant.	(2)
	(Total for Question 2 = 9 mag	rks)

3 The diagram shows the body's response to dehydration.



(a) Use the diagram to help explain the body's hormonal response to dehydration.	
	(4)

(b) The	e m	enstrual cycle is also controlled by hormones including progesterone.	
(i)	Co	mplete the sentence by putting a cross (\boxtimes) in the box next to your answer.	
	Pro	ogesterone is produced by the	(1)
×	A	corpus luteum	
X	В	glomerulus	
X	C	hypothalamus	
X	D	pituitary gland	
(ii)		scribe the effect of high levels of progesterone on the uterus lining during egnancy.	
			(1)

*(b) (iii) Explain how the menstrual cycle is controlled by hormones and negative feedback.		
	(6)	
(Total for Question 3 = 12 n	narks)	