6.6 Hormones, Homeostasis & Reproduction

Homeostasis Define homeostasis Outline the role of negative feedback in homeostatic regulation List four conditions under homeostatic regulation 1. 3. 2. 4. **Endocrine System** Define hormone Outline the role of thyroxin in body temperature regulation Outline the role of melatonin in controlling circadian rhythms

Outline the role of leptin in the control of appetite							
Outline the role of insulin and glucagon in the regulation of blood sugar levels							
Compare type	I and type II diabetes						
	Type I	Type II					
Onset							
Effect							
Cause							
Treatment							
Reproduction							
Outline the conclusions drawn from William Harvey's investigation into the sexual reproduction of deer							
Understanding <u>before</u> Harvey:							
Understanding <u>after</u> Harvey:							

Describe the genetic and hormon	al factors responsible for sex developm	nent
Genetic Factors:		
Hormonal Factors (Male):		
Hormonal Factors (Female):		
Label the male and female reprod	luctive systems	
	6	
5 0	a Com	B
	7	765
4		
3	(C)——(8)	E
2		F
		3
0	6	A
1	7	В
2	8	C
3	9	D
4		E
Ę		C

Outline the roles of the menstrual hormones											
Anterior Pituitary											
Ovaries											
Complete the diagram to show the changes in hormonal levels over the course of a menstrual cycle											
	ω.	Folli	cular Phase		Lut	teal Phase					
	Pituitary Hormones										
	Ovarian Hormones										
Da	ay '	1 !	5 ′	10 1	15 2	20 25	5 28				
Describe the key events of the menstrual cycle											

.....

Outline the role of negative and positive feedback in the menstrual cycle	
Negative Feedback	
Positive Feedback	
Summarise the key steps required for in vitro fertilisation	
S	
Н	
Е	
S	
F	
I	•
Т	- S
Discuss the ethical issues regarding the use of IVF	
Arguments <u>For</u> IVF	
Arguments <u>Against</u> IVF	