Reproduction

Question Paper

Level	Pre U	
Subject	Biology	
Exam Board	Cambridge International Examinations	
Topic	Animal physiology	
Sub Topic	Reproduction	
Booklet	Question Paper	

Time Allowed: 48 minutes

Score: /40

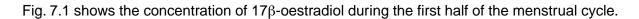
Percentage: /100

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Part - A

1 17β -oestradiol is the main oestrogen in humans.



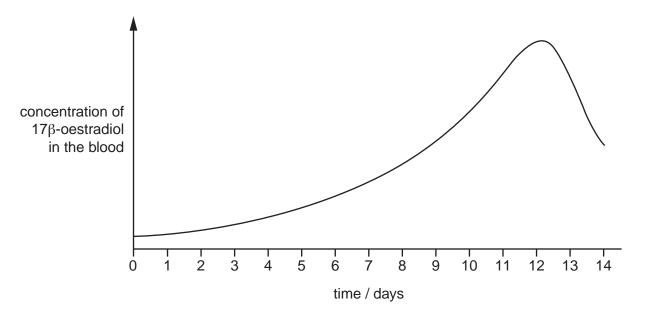


Fig. 7.1

(a) (i)	Name a source of oestrogen, such as 17β -oestradiol, during the first part of the menstrual cycle.
	[1]
(ii)	With reference to Fig. 7.1, describe the effects of oestrogen secretion on the uterus during the first half of the menstrual cycle.
	[3

(b)	The combined contraceptive pill contains oestrogens and progesterones.			
	Describe how these hormones act to prevent conception.			
	[3]			
(c)	The drug clomiphene is used in infertility treatments for women.			
Describe the mode of action of clomiphene.				
	[3]			

[Total: 10]

2

Part - B

It is believed that sperm were originally an adaptation for sexual reproduction in the marine

environment, where life evolved. Many aquatic species of plants and animals reproduce by releasing male and female gametes into water. The sperm, the male gametes, swim to the ova and thus fertilisation takes place. Land plants and animals are thought to have evolved from marine ancestors. Some amphibians, such as frogs, return to water to reproduce when their sperm can swim to the ova, but most land plants and animals have evolved alternative strategies.			
	cuss the problems involved in the transfer of male gametes on land, and the ways in these problems have been solved in a range of organisms.		

 [30]

[Total: 30]