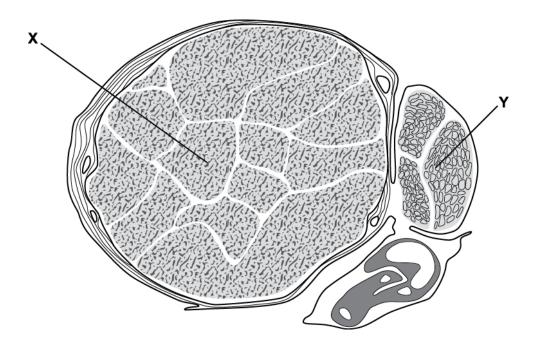
1.	A pregnancy can be confirmed by detecting a substance which is only present in urine if an early embryo is developing.
	Which of the following substances is present in the urine of a woman who is pregnant?
	A HCG antigen
	B HCG antibody
	C GnRH antigen
	D GnRH antibody
	Your answer

[1]

2. The photomicrograph below shows a transverse section through a testis.

Two regions are labelled \boldsymbol{X} and \boldsymbol{Y} .



Which of the rows, A to D, from the table below correctly identifies features of X and Y?

	Production of seminal fluid	Site of FSH activity	Storage of sperm
Α	neither X nor Y	X	Υ
В	neither X nor Y	Υ	X
С	Y	X	Y
D	Y	X	X

Your answer				

[1]

3.		spermatogenesis, crossing over of the chromatids of homologous chromosomes gives rise to genetic iation.	
	Wh	ich of the options, A to D, is the cell type in which crossing over occurs?	
	A B C D	primary spermatocyte secondary spermatocyte spermatogonium spermatid	
	Υοι	ur answer [1]	
4.		iosis II pauses in the secondary oocyte and is only completed if fertilisation occurs. nich of the options, A to D, is a description of the last meiotic stage prior to fertilisation?	
	Α	Homologous chromosomes align to the equator of the oocyte.	
	В	Homologous chromosomes migrate to opposite poles of the oocyte.	
	С	Single chromosomes align to the equator of the oocyte.	
	D	Sister chromatids migrate to opposite poles of the oocyte.	
	You	ur answer	[1]

(С	sensitisation of testicular cells to testosterone	
I	D	stimulation of testosterone release	
		r answer	[1]

5.

END OF QUESTION PAPER

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Mark Scheme

Question		Answer/Indicative content	Marks	Guidance	
1		А	1		
		Total	1		
2		A✓	1		
		Total	1		
3		A •	1	Examiner's Comments Another straightforward question but a disappointing number of candidates answered correctly.	
		Total	1		
4		C	1	Examiner's Comments The level of recall demanded by this question proved problematic for many candidates. Despite the question asking about the completion of meiosis II, many candidates selected option A or B which referred to homologous chromosomes. The question was testing the knowledge that meiosis II is halted at metaphase II prior to fertilisation.	
		Total	1		
5		D	1		
		Total	1		