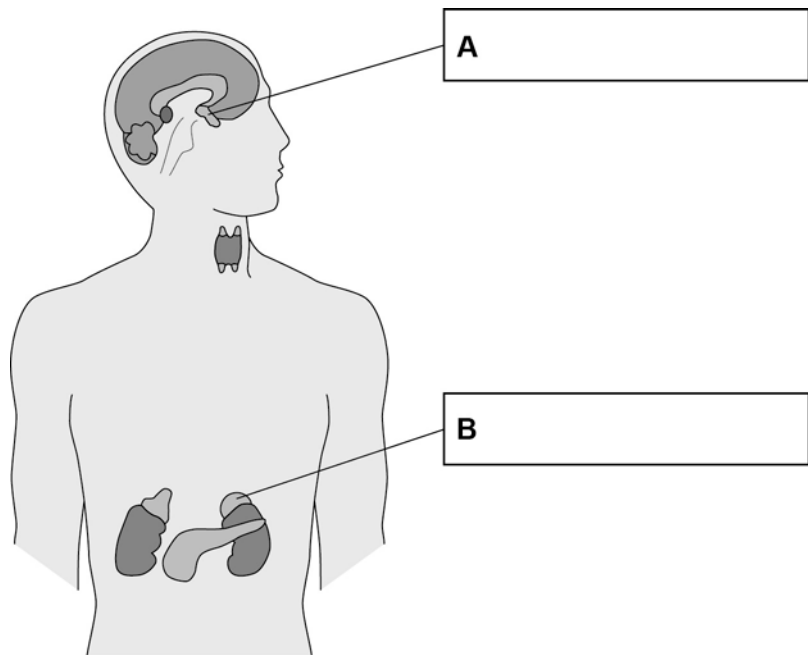


**0 9**

Glands in the body produce hormones.

**0 9****. 1**Use words from the box to label gland **A** and gland **B** on **Figure 13**.**[2 marks]**

<b>Adrenal</b>	<b>Pancreas</b>	<b>Pituitary</b>	<b>Testis</b>	<b>Thyroid</b>
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**Figure 13****0 9****. 2**

Which gland produces oestrogen?

**[1 mark]**Tick **one** box.Ovary Pancreas Testis Thyroid

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**Table 4** shows some methods of contraception.

**Table 4**

Type of contraception	Percentage (%) of pregnancies prevented
Oral pill	>99
Implant	99
Condom	98
Diaphragm	<96

**0 9** . **3** Which method of contraception in **Table 4** is **least** effective at preventing pregnancy?  
[1 mark]

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**0 9** . **4** Which method of contraception in **Table 4** will protect against sexually transmitted diseases like HIV?  
[1 mark]

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**Question 9 continues on the next page**

Another method of contraception is called the intrauterine device (IUD).

There are two main types of IUD:

- copper
- plastic.

Both types of IUD are more than 99% effective.

Look at **Table 5**.

**Table 5**

	<b>Copper IUD</b>	<b>Plastic IUD</b>
<b>How the IUD works</b>	<ul style="list-style-type: none"> <li>• releases copper</li> <li>• copper changes the fluids in the uterus to kill sperm</li> </ul>	<ul style="list-style-type: none"> <li>• releases a hormone</li> <li>• hormone thickens mucus from the cervix so the sperm have more difficulty swimming to the egg</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• prevents pregnancy for up to 10 years</li> <li>• can be removed at any time</li> <li>• can be used as emergency contraception</li> </ul>	<ul style="list-style-type: none"> <li>• prevents pregnancy for up to 5 years</li> <li>• can be removed at any time</li> </ul>
<b>Possible side effects</b>	<ul style="list-style-type: none"> <li>• very painful periods</li> <li>• heavy periods or periods which last for a long time</li> <li>• feeling sick, back pain</li> </ul>	<ul style="list-style-type: none"> <li>• painful periods</li> <li>• light periods or no periods</li> <li>• feeling sick, headaches, breast pain, acne</li> <li>• hormones may affect mood</li> <li>• ovarian cysts</li> </ul>



**Question 9**

<b>Question</b>	<b>Answers</b>	<b>Extra information</b>	<b>Mark</b>	<b>AO / Spec. Ref.</b>
<b>09.1</b>	<b>A</b> – pituitary		1	AO1/1 4.5.3.4
	<b>B</b> – adrenal		1	AO1/1 4.5.3.1
<b>09.2</b>	ovary		1	AO1/1 4.5.3.4
<b>09.3</b>	diaphragm	allow phonetic spelling	1	AO3/2a 4.5.3.5
<b>09.4</b>	condom		1	AO2/1 4.5.3.5

**Question 9 continues on the next page**

## Question 9 continued

Question	Answers	Mark	AO / Spec. Ref.
09.5	<b>Level 2:</b> A detailed and coherent evaluation is provided which considers a range of advantages and disadvantages and comes to a conclusion consistent with the reasoning.	3–4	AO3/1b 4.5.3.5
	<b>Level 1:</b> An attempt to describe the advantages and disadvantages is made, which may not come to a conclusion. The logic may be inconsistent at times.	1–2	AO3/1a 4.5.3.5
	No relevant content	0	
	<b>Indicative content</b>  <b>advantages of the plastic IUD:</b> <ul style="list-style-type: none"> <li>• is effective for longer than the copper IUD</li> <li>• does not need to be replaced as often as the copper IUD</li> <li>• although the pain of periods are more severe, the pain with the copper IUD is likely to be worse</li> <li>• can reduce the bleeding during a period</li> <li>• most of the possible side effects are not serious, eg feeling sick, acne and headaches.</li> </ul> <b>disadvantages of the plastic IUD:</b> <ul style="list-style-type: none"> <li>• needs to be implanted for a period of time before it is effective ie not emergency contraception</li> <li>• can make the pain of period more severe</li> <li>• can cause more side effects than the copper IUD</li> <li>• can cause some more severe side effects such as cysts on the ovaries</li> </ul> an understanding that the side effects are only possible and may not necessarily occur  <b>additional examiner guidance:</b> <ul style="list-style-type: none"> <li>• pupils should add value to the points in the table and should not just be copies verbatim</li> <li>• credit can also be given for other correct advantages and disadvantages from the candidates' own knowledge and understanding</li> <li>• allow converse points if clearly made</li> </ul>		
<b>Total</b>		<b>9</b>	