AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 4.5.3.4

# Contraception

## Past-paper questions

| | |
|---|---|
| Tier | **Foundation** |
| Question groups | **3** |
| Available paper years | **2020–2025** |

### Using this booklet

1. Answer the questions in order and show your working.
2. Original question numbers and marks are retained.
3. Print at actual size (100%) for measuring questions.
4. Use the companion answer booklet to check your work.

**Name:** _____ **Date:** _____

Whole questions are retained for context, so some parts assess other specification points. Current and legacy sources are labelled. Continue on extra paper if needed.

### 4.5.3.4 Contraception

**Question 01**



**0 1** This question is about reproduction.

**0 1 . 1** Which **two** statements are true for sexual reproduction in humans?

**[2 marks]**

Tick (✓) **two** boxes.

- Gametes are formed. ☐
- Offspring are clones. ☐
- Offspring are genetically identical to parents. ☐
- Only one parent is involved. ☐
- Sperm and egg fuse. ☐

**0 1 . 2** Humans reproduce by sexual reproduction.

Complete **Figure 1** to show the inheritance of sex.

**[3 marks]**

**Figure 1**

| | | **Mother** | |
|---|---|---|---|
| | | **X** | **X** |
| **Father** | **X** | XX | |
| | | | |

4.5.3.4 Contraception

Question 01 · continued



**0 1 . 3** Draw a ring around the genotype of all male children in **Figure 1**.

**[1 mark]**

**0 1 . 4** When children reach puberty, reproductive hormones cause changes in their bodies.

Draw **one** line from each hormone to the change the hormone causes at puberty.

**[2 marks]**

| **Hormone** | **Change the hormone causes at puberty** |
|---|---|
| | Breasts develop |
| Oestrogen | |
| | Skin turns lighter |
| | Voice becomes deeper |
| Testosterone | |
| | Wisdom teeth appear |

**Question 1 continues on the next page**

4.5.3.4 Contraception

Question 01 · continued



A woman does **not** want to become pregnant.

She considers two methods of contraception.

**0 1 . 5** Draw **one** line from each method of contraception to how the method prevents pregnancy.

**[2 marks]**

| Method of contraception | How the method prevents pregnancy |
|---|---|
| Condom | Embryos do not implant in the uterus |
| Oral contraceptive (the pill) | Hormones stop eggs maturing |
| | Sperm are killed |
| | Sperm do not reach the egg |

**4.5.3.4 Contraception**

**Question 01 · continued**



**0 1 . 6** Give **one** advantage and **one** disadvantage of taking oral contraceptives to prevent pregnancy.

**[2 marks]**

Advantage _____

_____

Disadvantage _____

_____

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**Turn over for the next question**

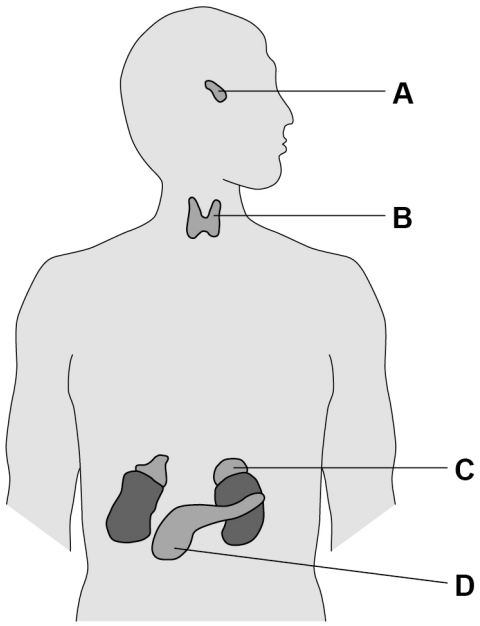
4.5.3.4 Contraception

Question 02

November 2021 | 8464/B/2F | Original Q6

**0 6** **Figure 5** shows glands in the human body.

**Figure 5**




**0 6 . 1** Which organ system includes the glands shown in **Figure 5**?

**[1 mark]**

**0 6 . 2** Which gland produces insulin?

**[1 mark]**

Tick (✓) **one** box.

**A** ☐ **B** ☐ **C** ☐ **D** ☐

**0 6 . 3** Which gland produces hormones that stimulate the other glands to produce hormones?

**[1 mark]**

Tick (✓) **one** box.

**A** ☐ **B** ☐ **C** ☐ **D** ☐

4.5.3.4 Contraception

Question 02 · continued



**0 6 . 4** How do hormones travel from one gland to another gland?

**[1 mark]**

**0 6 . 5** Name **two** glands involved in human reproduction.

Do **not** refer to glands shown on **Figure 5** in your answer.

**[2 marks]**

1 _____

2 _____

**0 6 . 6** Ovulation test kits can help women know when they are most fertile.

Ovulation test kits detect the increase in the hormone that stimulates ovulation.

Which hormone is detected by ovulation test kits?

**[1 mark]**

Tick (✓) **one** box.

- Follicle stimulating hormone (FSH) ☐
- Luteinising hormone (LH) ☐
- Oestrogen ☐
- Progesterone ☐

4.5.3.4 Contraception

Question 02 · continued



**0 6 . 7** A new contraceptive drug for men is being tested.

The drug:

- is given in one injection
- stops sperm being able to fertilise eggs
- is effective for up to 13 years.

Evaluate the use of the new drug compared with existing contraceptive methods.

**[6 marks]**

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4.5.3.4 Contraception

Question 03

June 2025 | 8464/B/2F | Original Q6

**0 6** This question is about the hormones involved in reproduction.

**0 6 . 1** Name **one** hormone produced in the **ovaries**.

**[1 mark]**

**0 6 . 2** Give **one** function of the hormone that is produced in the **testes**.

**[1 mark]**

Different methods of contraception can involve:

- barriers
- hormones.

**0 6 . 3** Condoms are a barrier method of contraception.

Give **one** advantage of condoms as a method of contraception compared with hormonal methods of contraception.

Do **not** refer to cost in your answer.

**[1 mark]**

**Question 6 continues on the next page**

**4.5.3.4 Contraception**

**Question 03 · continued**



**0 6 . 4** Describe how **hormones** are used in different methods of contraception.

**[6 marks]**

Extra space

**9**