AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 4.2.2.7

Cancer

Past-paper questions

Tier	**Foundation**
Question groups	**2**
Available paper years	**2018–2022**

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.

4.2.2.7 Cancer

Question 01

June 2018 | 8464/B/1F | Original Q7

0 7 Coronary heart disease (CHD) is a non-communicable disease.

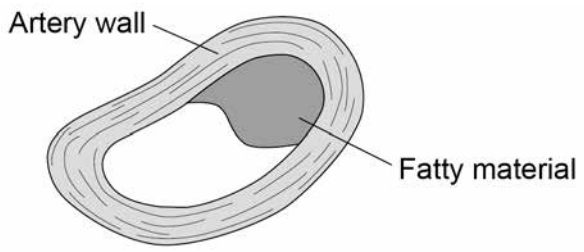
CHD is caused when fatty material builds up in the coronary arteries.

0 7 . 1 Explain what a non-communicable disease is.

[2 marks]

Figure 14 shows a coronary artery of someone with CHD.

Figure 14



0 7 . 2 Explain how CHD can cause a heart attack.

[3 marks]

Question 7 continues on the next page

4.2.2.7 Cancer

Question 01 · continued

June 2018 | 8464/B/1F | Original Q7

0 7 . 3 Explain how lifestyle and medical risk factors increase the chance of developing CHD.
[6 marks]

11

4.2.2.7 Cancer

Question 02

0 4 Cigarette smoking is the main cause of cancer in the UK.

0 4 . 1 Mutations in cells cause cancer.

Where in a cell do mutations happen?

[1 mark]

Tick (✓) **one** box.

Cell membrane ☐

Cytoplasm ☐

Nucleus ☐

0 4 . 2 Why do some cancers develop into large tumours?

[1 mark]

Tick (✓) **one** box.

Cells never stop dividing ☐

Cell respiration is slowed down ☐

Enzyme activity is stopped ☐

4.2.2.7 Cancer

Question 02 · continued

Cigarette smoking has been linked to many different types of cancer.

0 4 . 3 Lung cancer is the most common type of cancer caused by smoking.

Suggest **one** reason why.

[1 mark]

0 4 . 4 A person with lung cancer can develop secondary cancers in other parts of the body.

Describe how this can happen.

[1 mark]

0 4 . 5 Sometimes a person may need a lung transplant.

The National Health Service (NHS) will **not** offer a lung transplant to a person who smokes.

Suggest **one** reason why.

[1 mark]

Question 4 continues on the next page

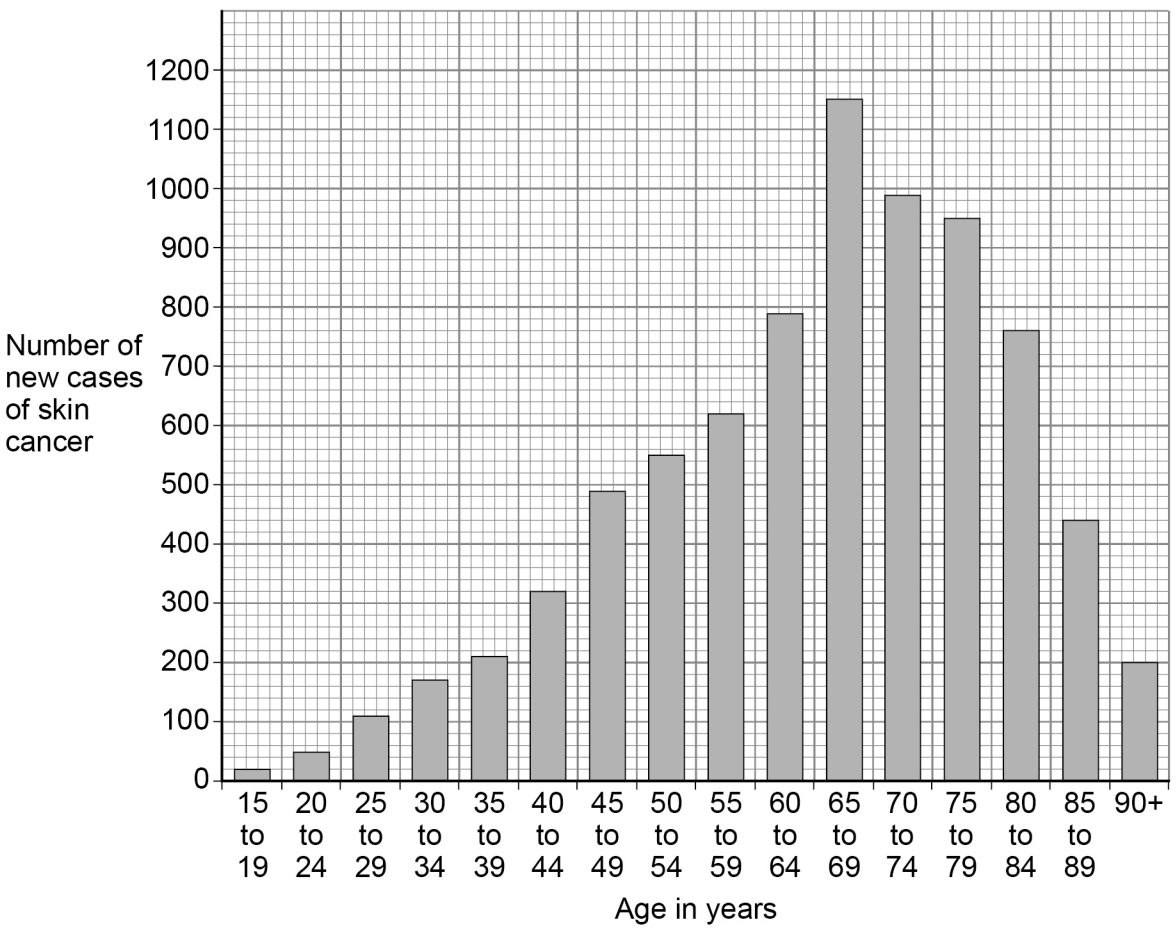
4.2.2.7 Cancer

Question 02 · continued

Figure 6 shows data about skin cancer in males for different age groups in the UK.

The data shows the number of new cases of skin cancer in one year.

Figure 6



0 4 . 6 How many more new cases of skin cancer are there in males aged 40 to 44 than in males aged 15 to 19?

[1 mark]

Number of new cases = _____

4.2.2.7 Cancer

Question 02 · continued

0 4 . 7 There are no new cases of skin cancer diagnosed in males younger than 15 years of age.

Suggest **one** reason why.

[1 mark]

0 4 . 8 Give **one** conclusion from the data in **Figure 6**.

[1 mark]

0 4 . 9 Survival rates for all types of cancers have improved over the last 20 years.

Suggest **two** reasons why.

[2 marks]

1

2

10