#### SPECIMEN MATERIAL

AQA		
Please write clearly, in bloc	capitals.	
Centre number	Candidate number	
Surname		
Forename(s)		
Candidate signature		
	Marks	

# ELC SCIENCE 5960

# **Externally-Set Assignment**

Component 1 - Biology: The human body

### Date of Exam

#### Materials

For this paper you must have:

• a ruler

#### Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the bottom of this page.
- Answer all questions in the spaces provided.
- Do all rough work in this book. Cross through any work you do not want to be marked.

#### Information

- There are 20 marks available on this paper.
- The marks for questions are shown in brackets.

## Time allowed: 45 minutes

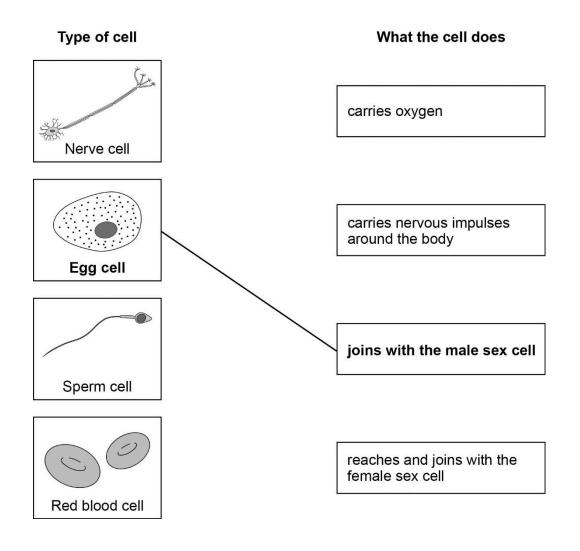
Answer **all** questions in the spaces provided.

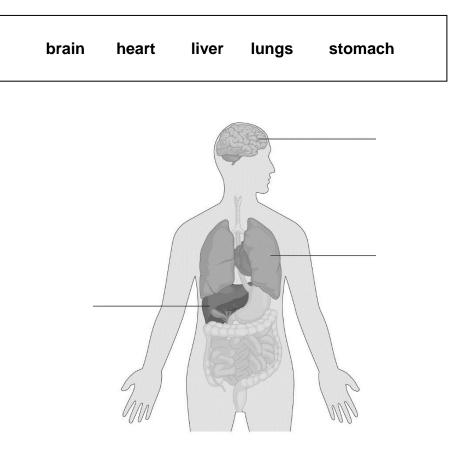
1. Cells of the body are specialised to carry out particular functions.

The column on the left shows some types of cells. The column on the right shows what these cells do.

Draw **one** line from each type of cell to what the cell does. We have done one to help you.

#### [3 marks] Outcome 1





2. Use the correct answers from the box to label the organs of the human body.

[3 marks] Outcome 2

Turn over for the next question

3. Your body produces many different chemicals which affect the way the body works.

Use the correct answers from the box to complete each sentence.

### [3 marks] Outcomes 3, 9

blood enzymes glands hormones nerves

Some chemicals help break down food into soluble substances.

These chemicals are called .....

Hormones are transported to their target organs by the .....

Hormones are secreted by .....

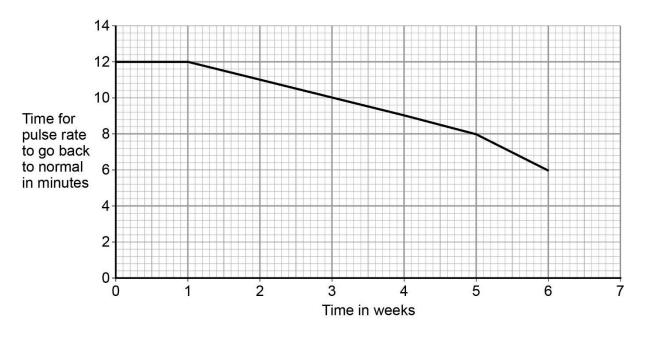
**4.** A student starts training for a run in 6 weeks' time.



She measures her pulse rate before running.

After running, she measures how long it takes her pulse rate to go back to normal.

She draws a graph to show how this time changes over 6 weeks.



(a) How long did it take the student's pulse rate to go back to normal after five weeks of training?

..... minutes. [1 mark]

(b) How can you tell from the graph that the student has become fitter?

[1 mark]

#### Question 4 continues on the next page

(c) The energy needed to run is released during respiration.

Which gas is used for respiration?

[1 mark] Outcome 4

.....

 George touches a hot pan by mistake. He immediately pulls his finger away. This is an example of a reflex action.



(a) Draw a ring around the word which describes a reflex action.

( )	5			[1 mark] Outcome 8
	automatic	learned	slow	
(b)	Which of these activities is a re	eflex action?		[1 mark] Outcome 8
	Tick (✓) <b>one</b> box.			
	writing a story			
	blinking when dust gets into y	vour eye		
	kicking a football into a net			

Turn over for the next question

6. Young children often become ill when they first start at playgroup. This is because they mix with a lot of people.



(a) Use the correct answer from the box to complete the sentence.

break die reproduce

Bacteria can easily spread from one person to another.

[1 mark] Outcome 5

When bacteria get into your body they quickly......

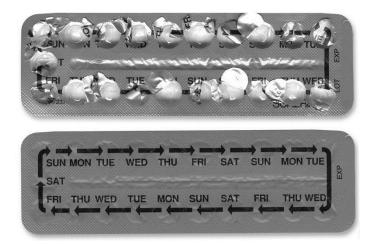
(b) Use the correct answer from the box to complete the sentence.

antibodies salts toxins

[1 mark] Outcome 5

Then you become ill because bacteria make ......

7. Sarah decides to take contraceptive pills to stop her becoming pregnant.



Her friends told her that there were some advantages and disadvantages of taking "the pill".

(a) Tick  $(\checkmark)$  one box to show an advantage of using the contraceptive pill.

#### [1 mark] Outcome 10

(b) Tick  $(\checkmark)$  one box to show a possible disadvantage of using the contraceptive pill.

[1 mark] Outcome 10

	Advantage	Disadvantage
The pill is 99% effective in preventing pregnancy.		
The pill will help you sleep better.		
You must take the pill every day for it to work.		
The pill will protect you against sexually transmitted diseases.		

Turn over for the next question

8. (a) Doctors often give their patients antibiotics to make them better.

What do antibiotics do?

[1 mark] Outcome 7

[1 mark] Outcome 6

Tick (✓) one box.
Antibiotics kill bacteria and viruses.
Antibiotics kill only bacteria.
Antibiotics kill only viruses.

(b) Doctors may give patients a vaccine to prevent disease.

The vaccine stimulates body cells to produce antibodies against the disease. Which type of cell produces antibodies?

Tick (✓) <b>one</b> box.
Bone marrow cells
Red blood cells
White blood cells

END OF QUESTIONS