

2001 HIGHER SCHOOL CERTIFICATE EXAMINATION

Biology

Section I (continued)

Part B – 60 marks

Attempt Questions 16–28

Allow about 1 hour and 45 minutes for this part

Answer the questions in the spaces provided.

Marks

Question 16 (4 marks)

**Genetically modified food on menu**

Australians are growing more accepting of genetically modified (GM) food, a federal agency survey has found.

This survey found that 44 per cent of Australians now believe GM food would become more widely accepted and less risky in the next few years.

An earlier survey revealed that people thought the risks outweighed the benefits, but that the situation would change.

- (a) State ONE opinion held by Australians about genetically modified food, according to this article. 1

*The article shows that Australians are becoming more accepting of genetically modified food.*

- (b) Justify ONE piece of information you would need in order to determine the validity of the survey results. 3

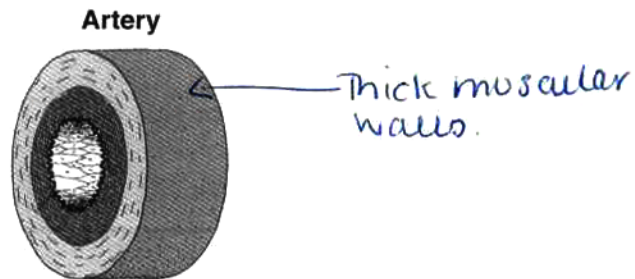
*You would need more information on the people surveyed, like age groups, what area they work in and where they live.*

Marks

Question 17 (3 marks)

- (a) Label, on the diagram, ONE structural feature of the artery shown.

1



- (b) How does the labelled feature relate to the artery's function?

2

The Thick muscular walls of an artery are necessary for the function of pumping blood through. The Artery is able to relax and contract in order to pump blood through to the rest of the body, away from the heart.

Question 18 (5 marks)

- (a) Name TWO products extracted from donated blood, and state their uses.

4

Haemoglobin - the red blood cells and enables them to carry oxygen.  
Platelets - enable the blood to clot.

- (b) Propose ONE reason why scientists have now begun to develop artificial blood.

1

They don't have to be type matched which makes it more convenient for the doctor and the patient.