

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

*Genetically modified food would become more
widely accepted and less risky in the next years.*

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

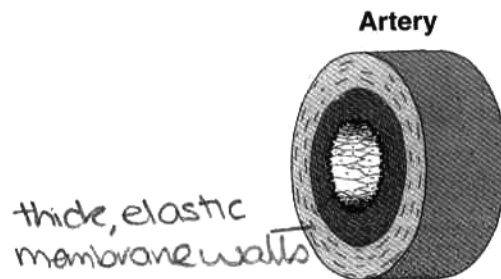
*A person would need to see or an available
copy of the survey would need to be seen. To
make sure the survey was credible you would
need to know what kind of people were
surveyed and from what area -> so no bias
can occur, so that the results were not fabricated.*

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

Transports a lot of blood away from the heart, to other main organs, under high pressure. The walls need to be thick so it can handle the flow of blood.

Question 18 (5 marks)

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

4

• PLATELETS - these clot blood. They minimise blood lost due to cuts etc.
• WHITE BLOOD CELLS - these protect ~~the body fro~~ and defend the body from foreign organisms

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

1

Because more people are needing blood transfusions, and less people are donating blood.