

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

"Australians are growing more accepting of genetically modified foods"

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

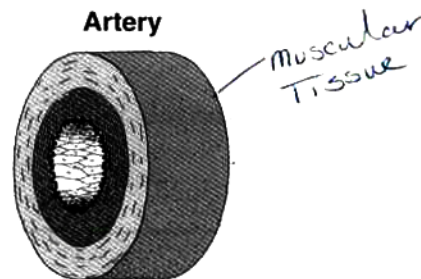
The initial percentage of previous opinions of genetically modified foods in order to compare it to the current percentage of people who accept Genetically modified foods in order to determine the validity of the results

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

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The muscular tissue gives the power for the
artery to pump the blood. With the
help of the elastic tissue.
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Question 18 (5 marks)

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

4

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Haemoglobin = Carries oxygen in the blood
around the body.
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Plasma = holds white blood cells and also
creates Antibodies which fight foreign bodies.
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- (b) Propose ONE reason why scientists have now begun to develop artificial blood.

1

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Because it is much cleaner and also can be
made for specific people with blood types. May need
more haemoglobin.
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