

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

risks outweighed the benefits, but that the situation would change.

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

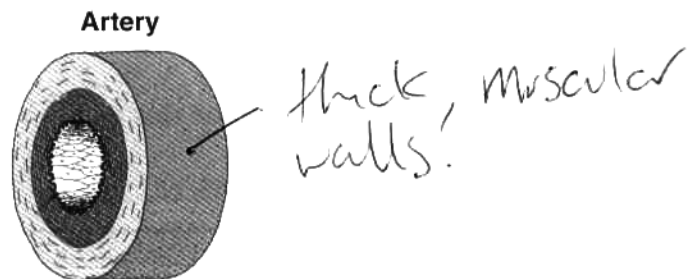
To justify the validity of the survey results you would need the number of peoples opinions and number of risks which occurred.

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

It provides muscles to contract and pump blood throughout the body, whilst being thick enough to withstand the pressure inside the artery carries blood away from the heart and the muscular walls assist in this.

Question 18 (5 marks)

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

4

white blood cells and ~~blue~~ Haemoglobin.
white blood cells help fight infections and
Haemoglobin carries oxygen around the
body in the red blood cells.

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

1

so that the blood is easier to obtain, disease free this taking less time for the blood to have to be checked.