

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 NOW BELIEVE GM FOOD WOULD BECOME MORE WIDELY ACCEPTED AND LESS RISKY IN THE NEXT FEW YEARS".

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

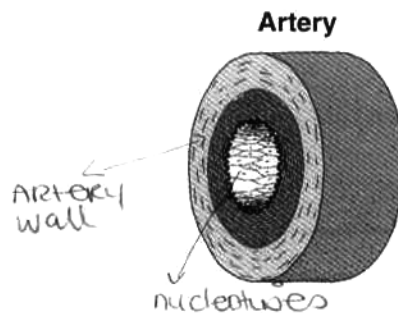
THE ARTICLE SAYS THAT IN AN EARLIER SURVEY REVEALED THAT PEOPLE THOUGHT THE RISK OUTWEIGHED THE BENEFITS, BUT SITUATION WOULD CHANGE. IN THAT STATEMENT IT SHOWS THAT THERE WAS SOME IMPROVEMENT OCCURRED FROM THAT PAST SURVEY THAT CONFIRMED THE VALIDITY OF THE SURVEY RESULTS.

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

It relates in a very important way because it is what holds the artery's together. The "Artery wall", without the wall, other features such as the nucleated RBCs on all sides of the inside, wouldn't keep together, just like how a cell has a wall.

Question 18 (5 marks)

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

4

White & red blood cells keep blood cells carry oxygen all around the body

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

1

Because there isn't enough people giving blood and blood is needed