

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**

*Eating genetically modified food is risky but benefits should outweigh risks in future.*

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

*How many people were tested/surveyed would determine validity of survey. If 10 people were surveyed then saying 'Australians' is misleading. However if 10,000 people were surveyed saying 'Australians' is representing a proportion of the country and the a wide scope and opinion base have been covered.*

**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 artery carries high pressure blood to body. The thick walls can withstand this pressure without causing the walls to split or break

**Question 18** (5 marks)

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

4

Platelets - this helps the blood to clot, and is given to people who have diseases such as leukemia.  
Red blood cells - this is used for people who have lost a lot of blood, as it carries oxygen.

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

1

We don't have enough donated blood in case there is a real need for it, such as if there is a war, or a international disaster.