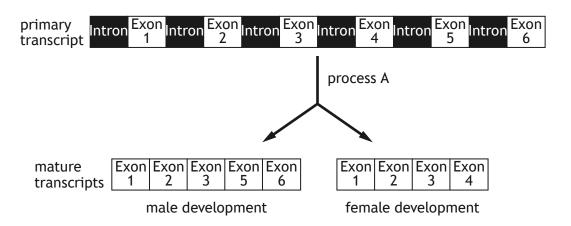
1

1

2

The doublesex gene in fruit flies determines whether they develop into males or females. The primary transcript of this gene can produce different mature transcripts as shown in the diagram.



(i) Name process A. (a)

(ii) State why the mature transcript shown below could not be produced.

Exon	Exon	Exon	Exon
2	1	3	4

(b) Splice site mutations can affect the development of fruit flies.

Describe the effect of a splice site mutation on a mature transcript and the effect on the protein synthesised.

Effect on mature transcript \_

Effect on protein\_