

1 Cystic fibrosis is an inherited disorder that can seriously affect health.

1 (a) (i) Which **one** of these is affected by cystic fibrosis?

Draw a ring around your answer. [1 mark]

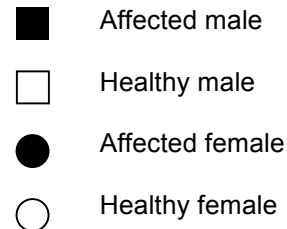
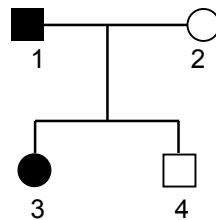
blood

cell membranes

kidneys

nervous system

1 (b) The diagram shows the inheritance of cystic fibrosis in a family. The allele that produces cystic fibrosis is recessive.



1 (b) (i) Explain why person 3 inherited cystic fibrosis.

.....

 (2 marks)

1 (b) (ii) Explain why person 4 did **not** inherit cystic fibrosis.

.....

 (2 marks)

1 (c) Couple 1 and 2 know that there is a risk that their next baby will have cystic fibrosis.

Embryos can be screened for the allele that produces cystic fibrosis. Many people support the screening of embryos, but others do not.

1 (c) (i) Suggest **one** reason why many people support the screening of embryos for the cystic fibrosis allele.

.....

 (1 mark)

- 1 (c) (ii) Suggest **one** reason why many people are against the screening of embryos for the cystic fibrosis allele.

.....

.....

.....

(1 mark)

(Total 7 marks)

Login or subscribe to my-GCSEscience.com to see the answers and commentary.