

(ii) Explain how this study should have been designed to allow valid conclusions to be made.

(3)

(iii) Explain why it is important that a person's perception of a risk is close to the actual risk.

(3)

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P 7 0 9 6 0 A 0 1 5 2 8

(i) Calculate the 10-year risk of CVD for a 35-year-old woman who:

- has a total cholesterol level of 242 mg dm^{-3}
- is a smoker
- has a systolic blood pressure of 132 mm Hg.

(2)

Answer %

(ii) Explain the lifestyle changes this woman could make to reduce her 10-year risk of CVD.

Use the information in the table to support your answer.

(2)

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(iii) Which pair of drugs may reduce the 10-year risk of CVD for this woman?

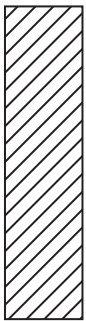
(1)

- ☐ A anticoagulants and statins
- ☐ B anticoagulants and antihypertensives
- ☐ C antihypertensives and platelet inhibitors
- ☐ D antihypertensives and statins

7 The components of a cell membrane determine its properties.

The membrane is a phospholipid bilayer.

(a) The table shows one way that the components of phospholipids can be drawn.

Component	Way of drawing the component
phosphate group	
glycerol	
fatty acid	
bond	

(i) Draw a diagram of a phospholipid, using the information in the table.

(2)

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- * (ii) Discuss the extent to which this pedigree diagram can be used to identify the genotypes of all the members of this family.

(6)

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(Total for Question 8 = 15 marks)

TOTAL FOR PAPER = 80 MARKS