

4. (a) The pigment melanin provides protection against the harmful effects of sunlight. Human albinos produce no melanin. Suggest why human albinos have a very high risk of developing skin cancer.

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(2)

(b) Describe the sequence of events leading to the formation of a tumour, such as a skin tumour.

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(3)

(c) A patient who had a cancerous skin tumour removed later developed further tumours, despite taking great care to avoid further exposure to sunlight. Suggest how these further tumours might have occurred.

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(2)

(Total 7 marks)

Q4

