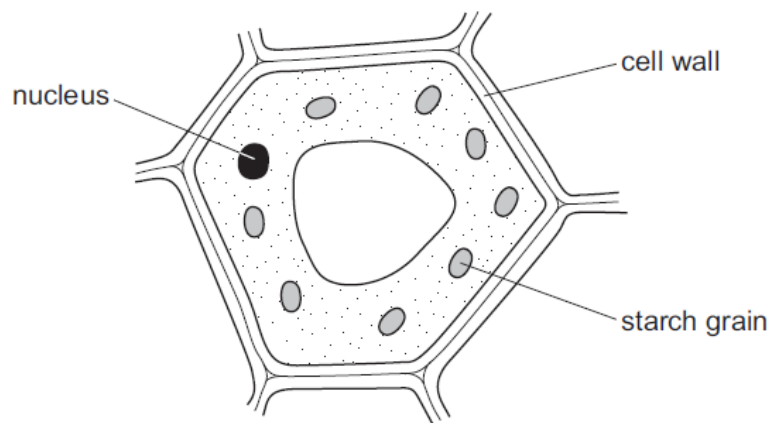


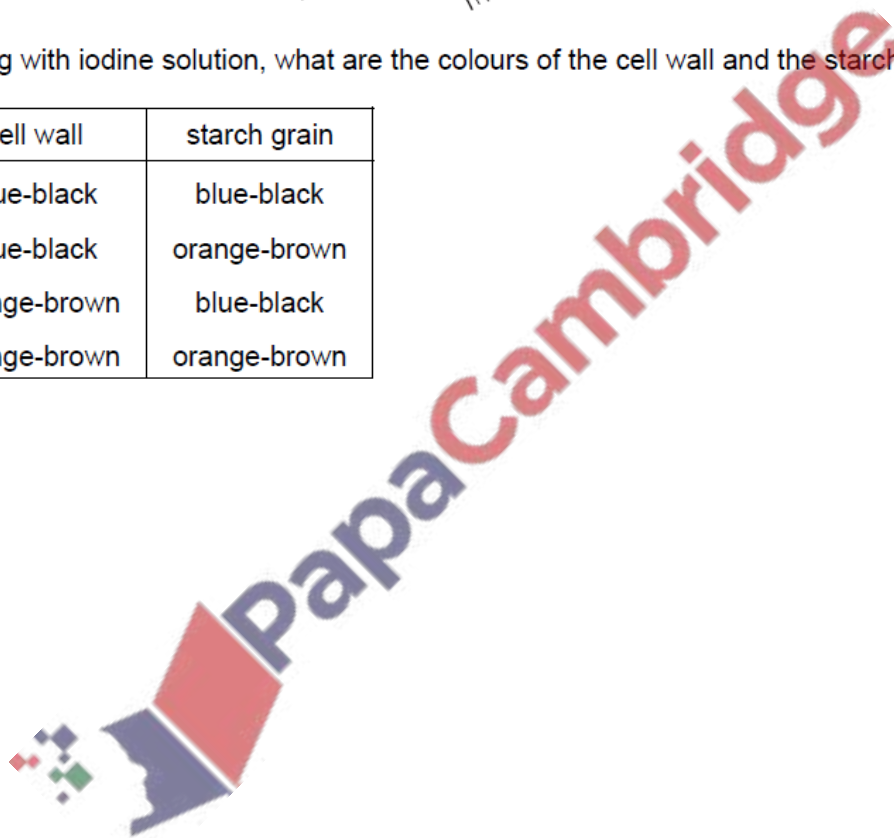
1. June/2022/Paper_11/No.1

The diagram shows a plant cell. The cell is stained with iodine solution.

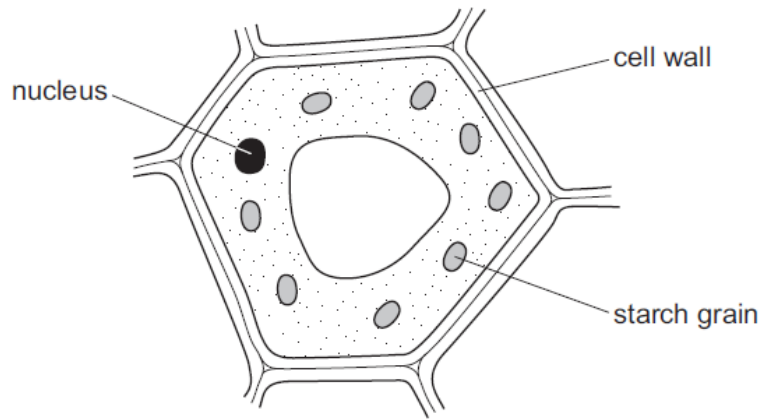


After staining with iodine solution, what are the colours of the cell wall and the starch grain?

	cell wall	starch grain
A	blue-black	blue-black
B	blue-black	orange-brown
C	orange-brown	blue-black
D	orange-brown	orange-brown

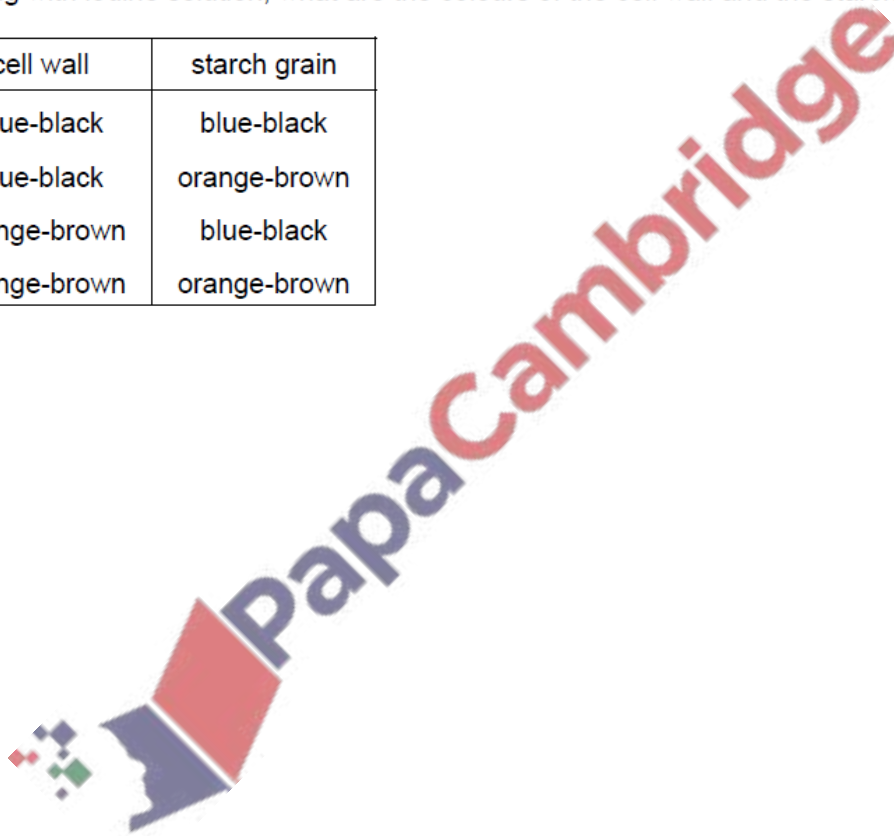


The diagram shows a plant cell. The cell is stained with iodine solution.

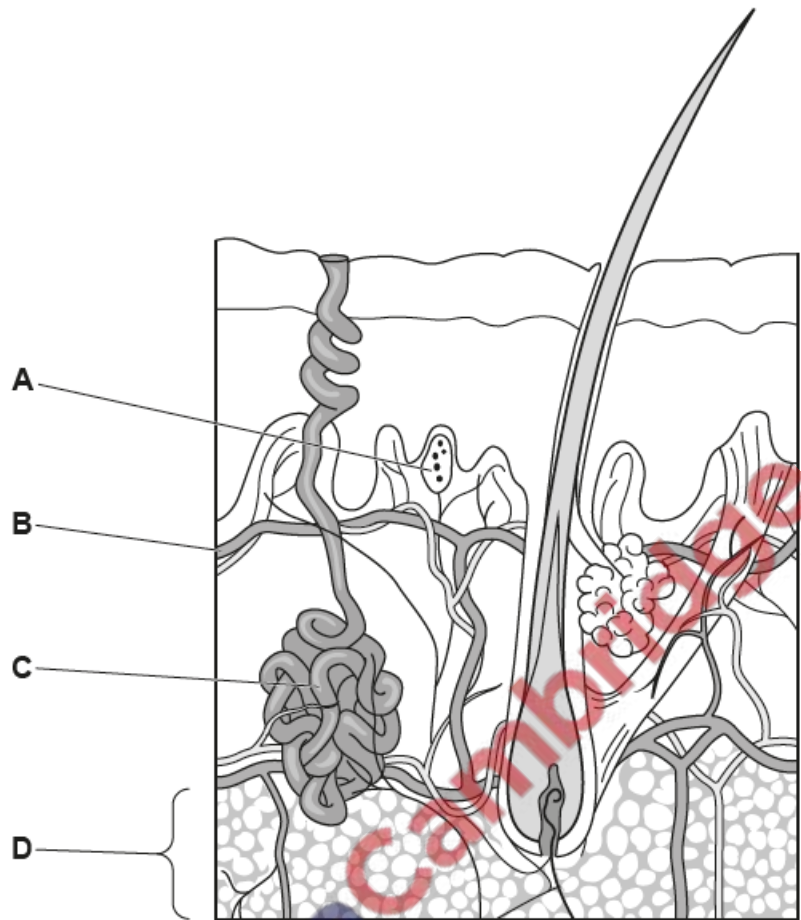


After staining with iodine solution, what are the colours of the cell wall and the starch grain?

	cell wall	starch grain
A	blue-black	blue-black
B	blue-black	orange-brown
C	orange-brown	blue-black
D	orange-brown	orange-brown



The diagram shows human skin.



(a) (i) Identify the parts labelled **B** and **C**.

B

C

[2]

(ii) Describe how part **B** is involved in maintaining a constant body temperature when the external temperature drops.

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[3]

(b) Part **A** is unevenly distributed in human skin.

Name part **A** and suggest reasons for this uneven distribution.

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..... [3]

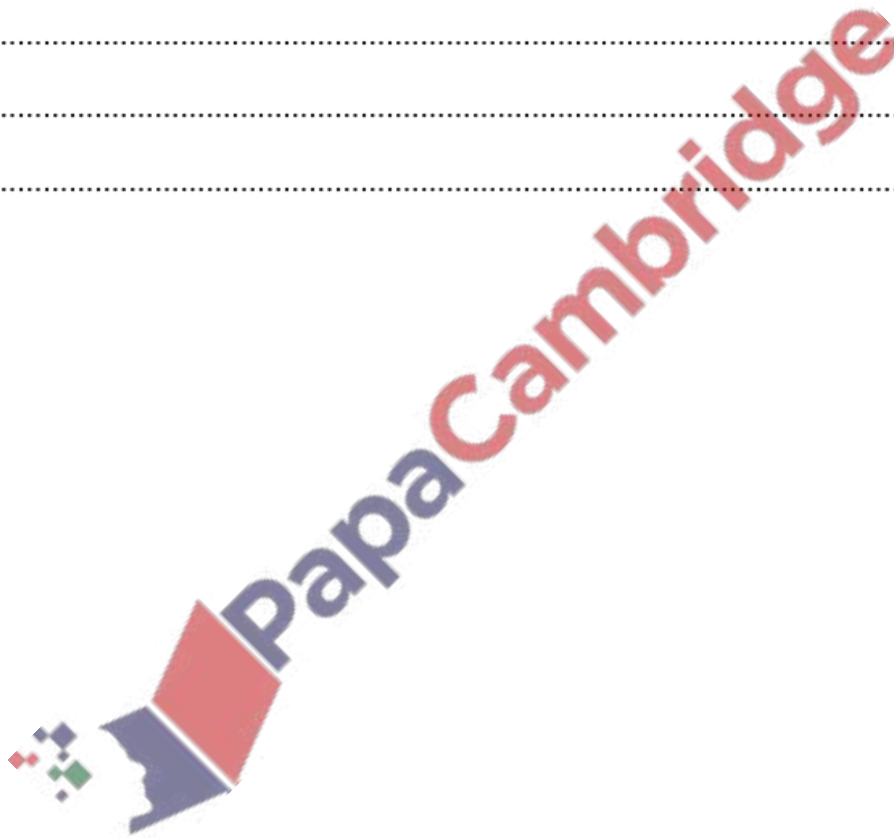
(c) The thickness of layer **D** can change over several months.

Suggest and explain **one** reason for a **decrease** in the thickness.

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..... [2]



4. June/2022/Paper_21/No.6(a)

There are many different types of virus that can infect animal cells.

(a) Compare the **structure** of a typical virus with a typical animal cell.

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..... [4]

