Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B1 Cell Biology

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Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

Q1.

This question is about microscopy.

(a) **Figure 1** shows bacteria viewed using a microscope.

Figure 1



What type of microscope was used to view the bacteria in **Figure 1**?

Give a reason for your answer.

Type of microscope _____

Reason _____

_____

_____

(1)

(b) Bacterial cells are prokaryotic cells.

Give **three** ways that a prokaryotic cell is different from a eukaryotic cell.

1 _____

_____

2 _____

_____

3 _____

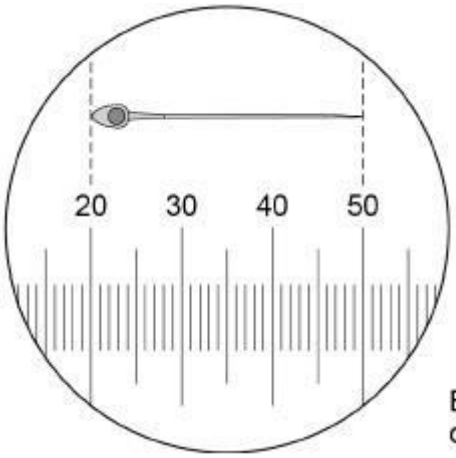
_____

(3)

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(c) **Figure 2** shows a special slide used to determine the size of a cell viewed using a microscope.

Figure 2



Calculate the magnification of the cell shown in **Figure 2**.

Magnification = × _____

(5)

(Total 9 marks)

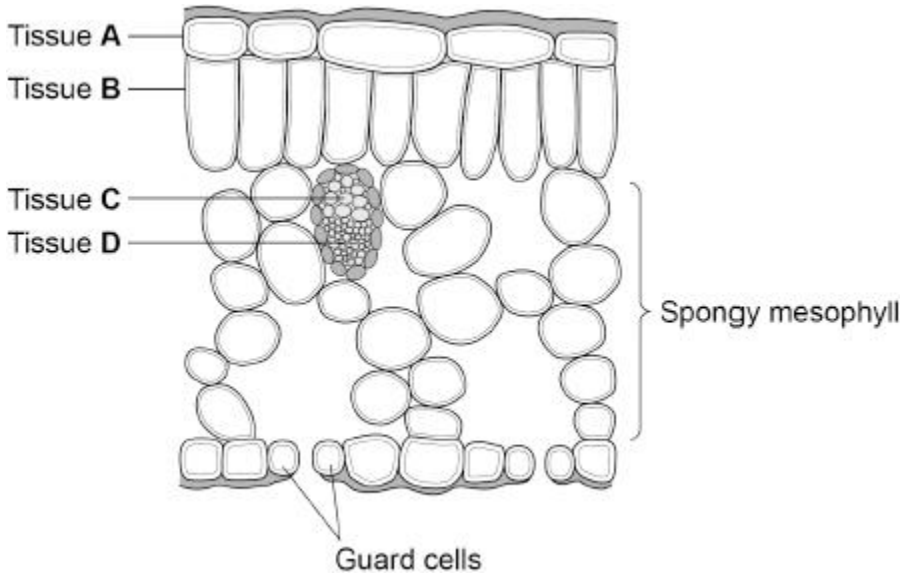
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Q2.

A leaf is a plant organ.

Figure 1 shows tissues in a leaf.

Figure 1



(a) Which tissue is the epidermis?

Tick (✓) **one** box.

A ☐ **B** ☐ **C** ☐ **D** ☐

(1)

(b) Explain how the spongy mesophyll is adapted for its function.

Use **Figure 1**.

_____

_____

_____

_____

_____

_____

(3)

(c) The xylem is adapted to transport water through a plant.

Explain **one** way that xylem is adapted for its function.

_____

_____

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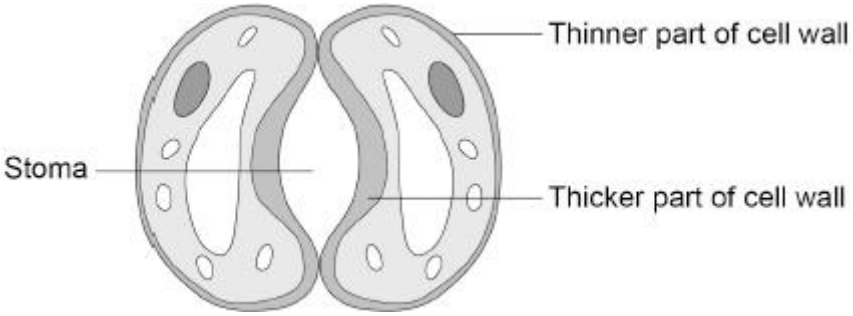
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(2)

(d) **Figure 2** shows a pair of guard cells around a stoma.

Figure 2



During the day, glucose is made in the guard cells.

Describe how an increase in glucose concentration in the guard cells causes the stoma to open.

_____

_____

_____

_____

(2)

(Total 8 marks)

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