

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Plant Tissues and Organ Systems Questions

Name:

M M E

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Total Marks: /25

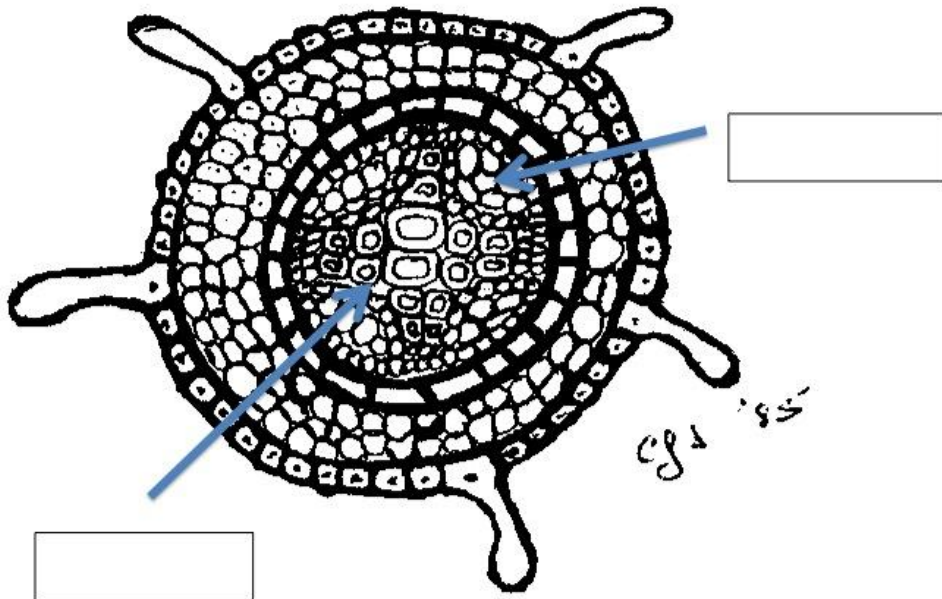
Q1: Explain the role of xylem in plants.

(1 mark)

Q2: What is the role of mesophyll?

(1 mark)

Q3: Figure 1 shows a cross section of a root. Label the xylem and phloem.



(2 marks)

Q4: The leaf is a major plant organ, which has multiple adaptations to carry out its function. Give 3 examples of an adaptation and state its role in the leaf.

(6 marks)

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Q5: The internal structure of the leaf is also adapted to its function. Fill in the following table.

Adaptation	Purpose
Thin epidermis	
Layer of palisade cells	
Thin waxy Cuticle	

(3 marks)

Q6: i) Where would meristem be found within the plant?

(2 marks)

ii) What is the role of meristems?

(1 marks)

Q7: The table below gives the amount of water taken up by 2 plants.

Time (Min)	Water uptaken (ml)	
	Plant A	Plant B
2	3	2
4	4.5	3.7
6	5.2	4.9
8	8.2	7.2
10	9.3	9.1
12	11.4	11.6

i) Plot the data shown in table 2.

(2 mark)

ii) What does the graph show for the water uptake in plant B?

(1 mark)

Q8: What is the role of stomata and guard cells within the leaf?

_____ (1 mark)

Q9: What is the purpose of transpiration?

_____ (1 mark)

Q10: Give 3 factors that can affect the rate of transpiration.

1. _____
2. _____
3. _____

(3 marks)

Q11: What is the purpose of translocation in plants?

_____ (1 mark)