



WORKSHEET

Full marks 34

1 Key words [4]

amphibians antheridia cones cotyledons flowers ovary rhizoids sori thallus

Whittaker

2 Multiple choice [5]

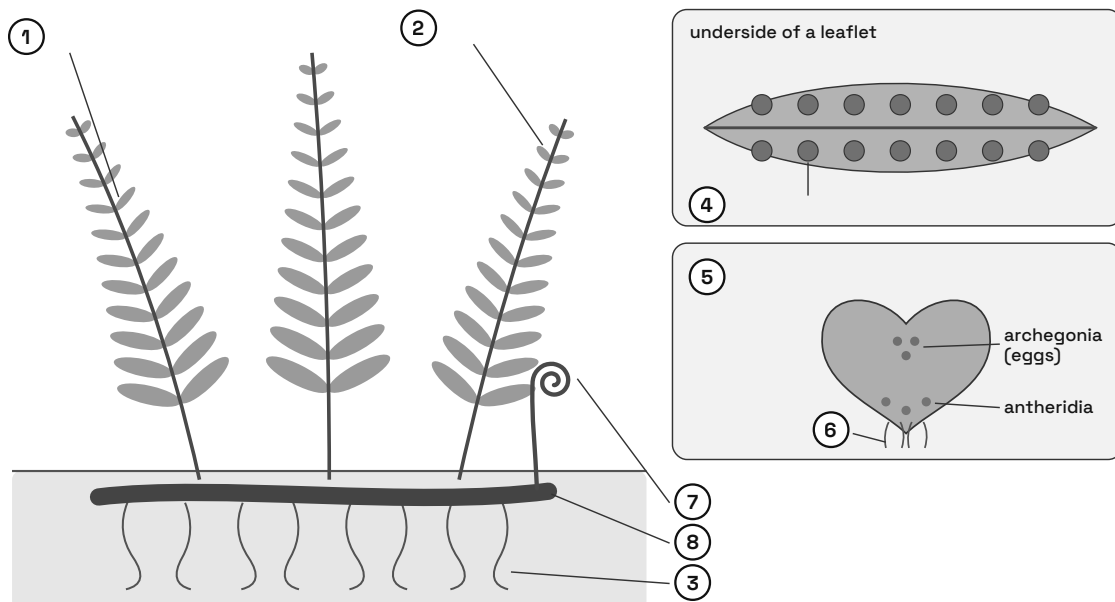
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- v. Which group of plants belongs to the angiosperms? [1]
- | | |
|----------------------|-------------------------|
| a. pine, fern, pea | b. juniper, maize, gram |
| c. moss, maize, bean | d. paddy, banana, mango |

3 Label the diagram

The diagram shows a fern plant, the underside of one of its leaflets, and its small gametophyte. Name the parts numbered 1 to 8. Each carries 0.5 mark.



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

4 Very short answers

Write very short answers to the following questions.

- a. Into how many divisions are the organisms of the plant kingdom divided? [1]

- b. What is a thallus? [1]

- c. In a fern, which generation is dominant: the gametophyte or the sporophyte? [1]



5 Short answers

[8]

Write short answers to the following questions.

- a. Write any two differences between a moss and a clubmoss.

[2]

- b. Give a reason: gymnosperms do not bear fruit.

[2]

- c. Give a reason: Riccia is called an amphibian plant.

[2]

- d. A fern is not a flowering plant; Cycas bears cones but no fruit; a banana bears flowers and fruit. Yet all three are kept in the same division. Give a reason.

[2]

6 Long answers

[8]

Write long answers to the following questions.

- a. Describe alternation of generations in a moss, naming the generation that is dominant.

[4]

- b. Look at two plants: an orange tree with fruits, and a Cycas.

[4]

- i. Write one similarity between them. (1)
- ii. Write one difference between them. (1)
- iii. Name the subdivision of each, with the reason for placing it there. (1)
- iv. Which is more advanced? Give a reason. (1)



7 Think

[2]

Think, then answer.

If you were given only the leaves of some tracheophytes and asked to sort them into their subdivisions, could you do it? Give your argument.

8 Activity: Maize and gram (Activities 2.4 and 2.5)

(not marked)

Look at a maize plant and a gram plant with their roots, and a soaked gram seed and maize grain. Fill in the table.

Feature	Maize	Gram
veins of the leaf		
type of root		
number of cotyledons in the seed		
class		

Name two other plants of each class that grow near your home.

