



Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 33

1 Key words**[4]**

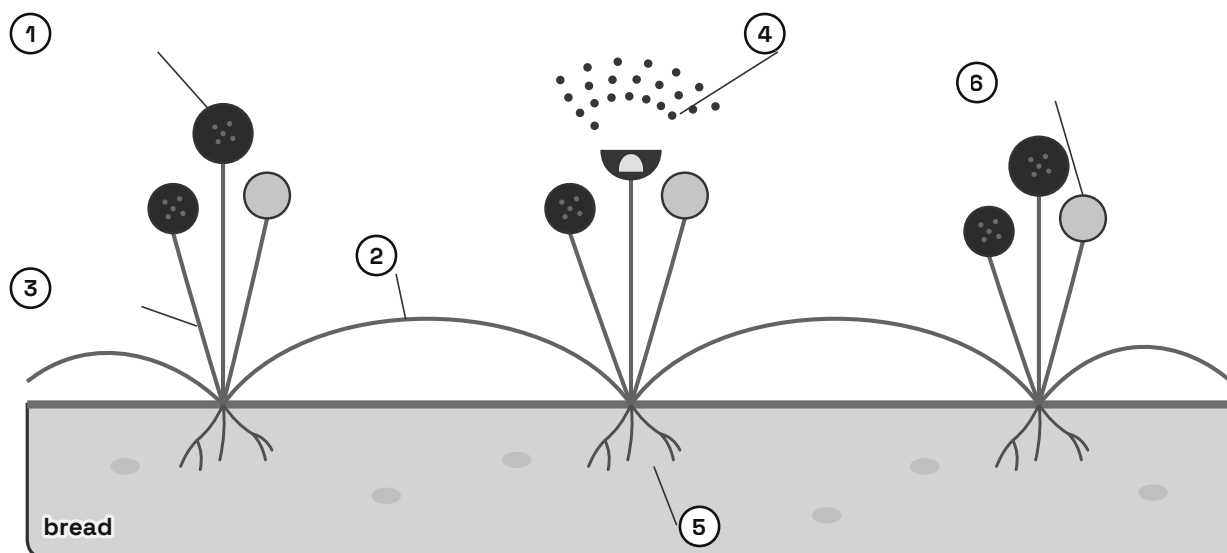
Fill in the blanks with words from the box. Two words in the box are not needed. Each blank carries 0.5 mark.

control fume cupboard hypothesis indicator inference observation questionnaire
research survey test

Experiencing an object, an event or a process carefully with the sense organs is called _____. A sensible guess that can be checked by a test is called a _____. A set procedure done to check whether such a guess is true is a _____. An in-depth study to answer a question that hasn't been answered well enough yet is called _____. Collecting data directly from the people or places concerned is a _____, and a printed list of questions that people answer in it is a _____. A reaction that gives off harmful fumes is done in a _____. In an experiment, the set-up in which nothing is changed, kept to compare the others with, is called the _____.

2 Label the diagram**[3]**

The diagram shows black bread mold (Rhizopus). Write the names of the parts numbered 1 to 6. Each carries 0.5 mark.



- | | |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |



[5]

i. What is the process of experiencing an object, event or process carefully through the sense organs? [1]

- ii. A liquid turns red litmus blue and leaves blue litmus blue. What is it? [1]

- iii. What should be done when carrying out a chemical reaction that produces fumes? [1]

- iv. In Activity 1.7, which of these must be kept the **same** for the two bottles? [1]

- v. Which method is suitable to find out whether the farmers of a region use more chemical or more organic fertilizer? [1]

[3]

a. What color does blue litmus paper turn in lemon juice? [1]

- b. Name the instrument used to observe things too small to be seen with the eyes. [1]

- c. Why is a chemical's smell wafted towards the nose instead of sniffed straight from the test tube? [1]

[8]

a. Give a reason: precautions should be taken while doing experimental work. [2]



- b. Give a reason: a report is prepared after an experiment or a survey.** [2]

- c. Write any two differences between observation and test. [2]

- d. What is meant by survey tools? Give any two examples. [2]

6 Long answer **[4]**

Write a long answer to the following question.

Elina wants to find out whether green plants need sunlight to make food. Suggest a method for her, with the result she should expect.

[illegible]

7 Numerical problems [4]

Solve the following problems. Show your working.

- a. Students surveyed 40 households about their waste: 18 gave all of it to the municipality's vehicle, 14 made compost, and 8 made compost and reused the rest. What percentage of the households made compost only? What percentage did all three groups add up to? [2]

[illegible]

Answer:



[2]

Answer:

[2]

Bread mold has no chlorophyll. What does that tell you about how it gets its food?

(not marked)

Indicator	Lemon juice	Soap water	Salt water
red litmus paper			
blue litmus paper			
acid, base or neutral?			

Why must both a red and a blue strip be dipped in each liquid?

