

Name:

School:

Class:

Date:

Set 1 Question Paper: Seed Germination*Answer all questions. Use the information in each question carefully.***1** The sentences describe seed germination. Choose the correct words from the list.**[4]****water appropriate temperature root shoot seed coat flower**

(a) The seed absorbs

(b) The outer

(c) The young

(d) The young

[4]**2** Two bean seeds were placed at 22 °C. Seed A was on dry cotton wool. Seed B was on wet cotton wool. After four days, only seed B germinated. **[2]**Explain why seed A did not germinate and describe **one visible change** in seed B.

1

2

[2]

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3 Which of these statements about seed germination are true and which are false?

[4]

Tick (✓) the correct box next to each statement.

statement	true	false
A seed may germinate when it has water and an appropriate temperature.	☐	☐
All seeds must be planted in soil before they can germinate.	☐	☐
Seeds usually absorb water and swell at the start of germination.	☐	☐
If the temperature is too low, germination may be slower or may not happen.	☐	☐

[4]

4 A student sets up four dishes using the same type and number of seeds. **[4]**

dish	condition of cotton wool	temperature
A	dry cotton wool	25 °C
B	wet cotton wool	25 °C
C	wet cotton wool	5 °C
D	dry cotton wool	5 °C

(a) Which dish should have the most seeds germinated after several days?

dish

(b) Explain your answer using both conditions needed for germination.

1

2

(c) Name the condition for germination that is not suitable in dish C.

condition

[4]

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5 Complete the sentences about what happens as a seed germinates. **[4]**

root shoot swells temperature flower

The first part to grow from a seed is usually the.....

The grows upwards and later forms the young plant above the ground.

Water makes the seed

Seeds need an appropriate to germinate.

[4]