

## BOOKLET A

60 marks · Questions 1 – 30 · multiple choice (A – D)

*For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (A, B, C or D). Each question carries 2 marks.*

**1. What happens to the bulbs in a series circuit if one bulb is removed from its holder? [2 marks]**

- A The other bulbs stay on.
- B Only the removed bulb stays on.
- C The other bulbs become brighter.
- D All the bulbs go off.

**2. The fruit of the burr grass: the seed case has tiny hooks that catch on fur. By which method are its seeds most likely dispersed? [2 marks]**

- A wind
- B the fruit splitting open
- C water
- D animals

**3. Fungi are different from green plants because fungi [2 marks]**

- A do not grow.
- B do not need water.
- C cannot make their own food.
- D cannot reproduce.

## THE WORKED ANSWERS TO THOSE 3 QUESTIONS

**1. What happens to the bulbs in a series circuit if one bulb is removed from its holder? [2 marks] [Electrical systems]**

**Correct answer: D — All the bulbs go off.**

- Pick out the key idea in the question and recall the science fact it is testing.
- The statement that is true is: "All the bulbs go off".
- Choose the option that matches this fact.
- Why the other options are wrong:
  - A (The other bulbs stay on.): This is not correct: it is false or does not answer this question. The correct answer is "All the bulbs go off".
  - B (Only the removed bulb stays on.): This is not correct: it is false or does not answer this question. The correct answer is "All the bulbs go off".
  - C (The other bulbs become brighter.): This is not correct: it is false or does not answer this question. The correct answer is "All the bulbs go off".

*LOS: Physical Science · Electrical systems*

### KEY TAKEAWAY

A circuit needs a complete loop of conductors with a source of energy; insulators keep users safe.

**2. The fruit of the burr grass: the seed case has tiny hooks that catch on fur. By which method are its seeds most likely dispersed? [2 marks] [Reproduction in plants: seed dispersal]**

**Correct answer: D — animals**

- Look at the feature: the seed case has tiny hooks that catch on fur.
- Seeds dispersed by animals have hooks or sweet fleshy fruits.
- Why the other options are wrong:
  - A (wind): This does not match the description. Seeds dispersed by wind are light or have wings or hairs.
  - B (the fruit splitting open): This does not match the description. Seeds dispersed by splitting open

come from dry fruits that burst.

- C (water): This does not match the description. Seeds dispersed by water are waterproof and float.

*LOS: Life Science · Reproduction in plants: seed dispersal*

#### KEY TAKEAWAY

Match the seed or fruit feature (wings, hooks, fleshy, waterproof, bursts open) to its method of dispersal.

### 3. Fungi are different from green plants because fungi [2 marks] [Diversity of living things]

**Correct answer: C — cannot make their own food.**

- Pick out the key idea in the question and recall the science fact it is testing.
- The statement that is true is: “cannot make their own food”.
- Choose the option that matches this fact.
- Why the other options are wrong:
  - A (do not grow.): This is not correct: it is false or does not answer this question. The correct answer is “cannot make their own food”.
  - B (do not need water.): This is not correct: it is false or does not answer this question. The correct answer is “cannot make their own food”.
  - D (cannot reproduce.): This is not correct: it is false or does not answer this question. The correct answer is “cannot make their own food”.

*LOS: Life Science · Diversity of living things*

#### KEY TAKEAWAY

Living things grow, reproduce and respond; plants make food, fungi and animals cannot.