



# MarkSmart P5 Science Free Sample

Questions · 12 questions · 25 marks · about 25 minutes

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Booklet A: choose the correct answer (1, 2, 3 or 4). Booklet B: write your answers in full sentences.

## Booklet A · Q1 to Q10 · 2 marks each (20 marks)

- 1** After fertilisation in a flower, which part develops into a fruit? [2] ( )
- (1) Ovule
  - (2) Stigma
  - (3) Ovary
  - (4) Anther
- 2** What happens during fertilisation in humans? [2] ( )
- (1) An egg is produced by the ovary.
  - (2) A sperm fuses with an egg.
  - (3) Sperms are produced by the testes.
  - (4) A baby is born.
- 3** Water droplets formed on the outer surface of a glass of iced water. Where did the water droplets come from? [2] ( )
- (1) The iced water seeped through the glass.
  - (2) The ice melted and flowed over the top of the glass.
  - (3) The glass gave out water when it became cold.
  - (4) Water vapour in the surrounding air condensed on the cold glass.
- 4** Two identical plates each held 20 ml of water. Plate A was left in a place at 30 °C and plate B in a place at 15 °C. All other conditions were the same. Which statement is correct? [2] ( )
- (1) The water on plate B evaporates faster.
  - (2) The water on plate A evaporates faster.
  - (3) The water on plate B does not evaporate.
  - (4) The water evaporates at the same rate on both.
- 5** How do clouds form in the water cycle? [2] ( )
- (1) Water vapour rises, cools and condenses into tiny water droplets.
  - (2) Water vapour rises and freezes straight into large blocks of ice.
  - (3) Water from the sea rises as liquid droplets without changing state.
  - (4) Smoke from a factory rises and turns into tiny raindrops.

- 6** How is the air we breathe out different from the air we breathe in? [2] ( )
- (1) It has no oxygen at all.
  - (2) It has more oxygen and less carbon dioxide.
  - (3) It has less oxygen and more carbon dioxide.
  - (4) It has no nitrogen.
- 7** During a race, Raju breathes faster and his heart beats faster. Why? [2] ( )
- (1) His lungs need more blood to make oxygen.
  - (2) His muscles need more oxygen and digested food, which the blood brings.
  - (3) His heart needs to digest more food.
  - (4) His body needs to take in more nitrogen from the air to give his muscles more energy.
- 8** A white flower was placed in a beaker of water with red dye. After a few hours the petals turned red. What does this show? [2] ( )
- (1) Food is carried from the leaves to the flower.
  - (2) Water is carried up the stem to the flower.
  - (3) The flower makes red dye.
  - (4) Water is carried from the flower to the roots.
- 9** Why are electric wires usually covered with plastic? [2] ( )
- (1) Plastic is an electrical insulator, so it protects us from electric shocks.
  - (2) Plastic is an electrical conductor, so current flows better.
  - (3) Plastic makes the bulbs brighter.
  - (4) Plastic stores electricity for later.
- 10** Two bulbs are connected in parallel to one battery. One bulb fuses. What happens to the other bulb? [2] ( )
- (1) It goes out.
  - (2) It becomes much dimmer.
  - (3) It stays lit.
  - (4) It fuses as well.

### **Booklet B · Q11 to Q12 (5 marks)**

- 11** The water-carrying tubes in a plant's stem were damaged. Its leaves wilted even though the soil was wet. Explain why. [2]

---

---

---

---

**12** Explain how oxygen from the air reaches the muscles in Ali's legs.

[3]

---

---

---

---

---

---

MarkSmart SG, by App-cellence Pte Ltd · [marksmart.app-cellence.com](https://marksmart.app-cellence.com) · Original questions. Not affiliated with MOE or SEAB.