

## FOUNDATION SCIENCE BOOKLET A

### Part 1

For each question from 1 to 16, three options are given. One of them is the correct answer. Make your choice (1, 2 or 3). Shade your answer on the Optical Answer sheet. **(32 marks)**

---

1. Which of the following living things have a 4-stage life cycle?

- 1) Frog
- 2) Chicken
- 3) Butterfly

2. The diagram below shows two living things.



fern



mushroom

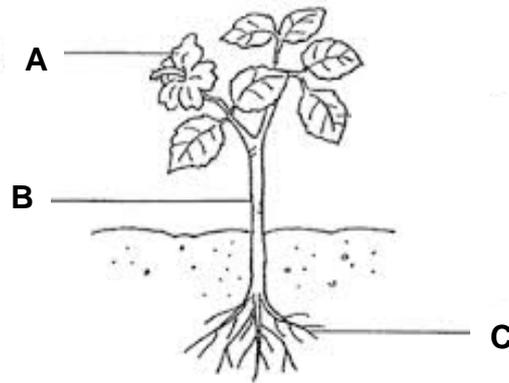
How are these two living things similar?

- 1) They can make their own food.
- 2) They reproduce from spores.
- 3) They need air, sunlight and water to survive.

3. Which of the following birds is most likely to feed on seeds and fruits?

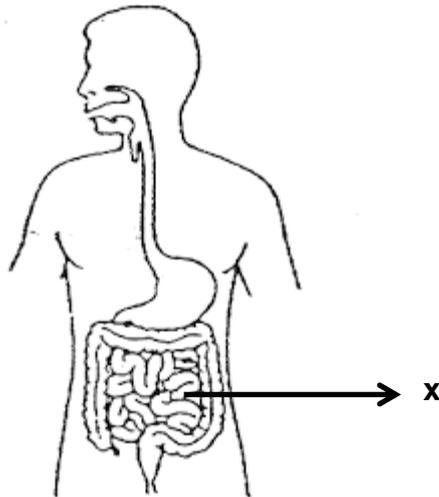


4. Which part of the plant helps it to stand upright?



- 1) A
- 2) B
- 3) C

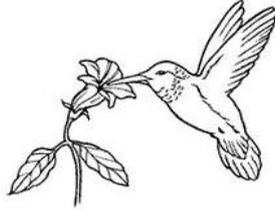
5. Study the diagram below.



What happened at X?

- 1) Food is being digested.
- 2) Carbon dioxide is removed.
- 3) Food is transported to the stomach.

6. Siti, Wani and Lina were walking in a park and saw a hummingbird fly to a flower. They made the following statements.



Siti : The bird helped to disperse the seeds of the plant.

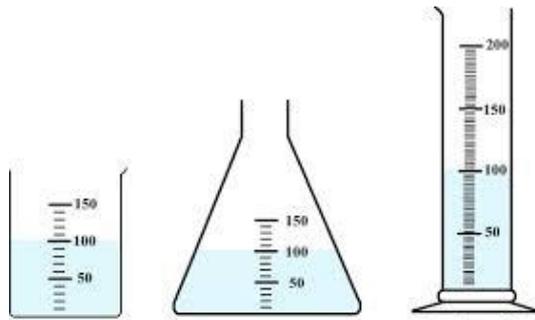
Wani : The bird carried out the process of fertilization.

Lina : The bird helped to transfer the pollen grains from the flower.

Who has made the correct statement?

- 1) Siti
- 2) Wani
- 3) Lina

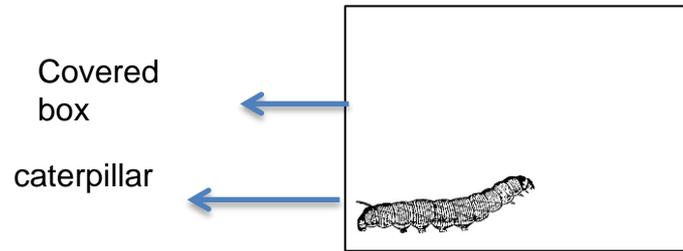
7. The diagram below shows three different balloons after an equal amount of water is being poured into each of them.



What does this experiment show?

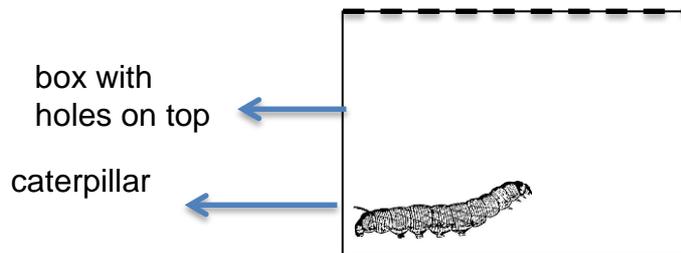
- 1) Water can expand and contract.
- 2) Water cannot be compressed.
- 3) Water takes on the shape of its container.

8. Fatimah wants to find out whether living things need air to survive. She used the set-up below.

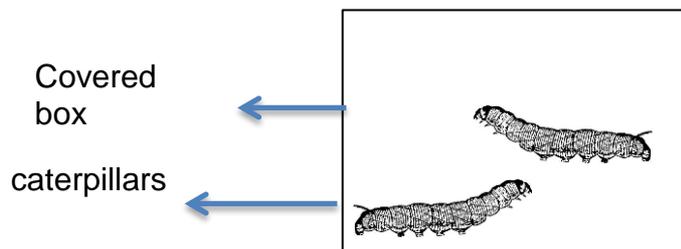


Which other set-up does she need to conduct a fair experiment?

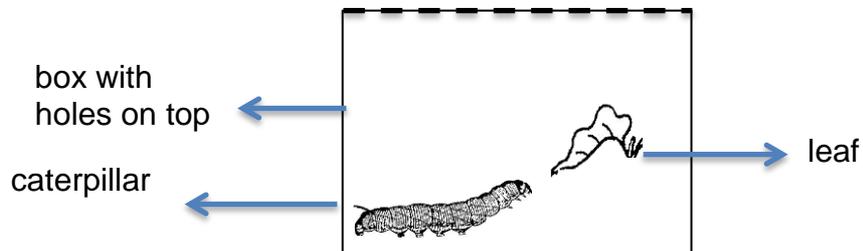
1)



2)



3)



9. Mdm Hani boils some water using an electrical kettle.



What energy is used to boil the water?

- 1) Light energy
- 2) Heat energy
- 3) Kinetic energy

10. Hanis used a hair dryer to dry her wet hair as shown in the diagram below.



After a while, her wet hair became dry. Which of the following best explains this?

- 1) The water evaporated.
- 2) The water condensed.
- 3) The water was blown away.



11. The diagram below shows a cooking pot.

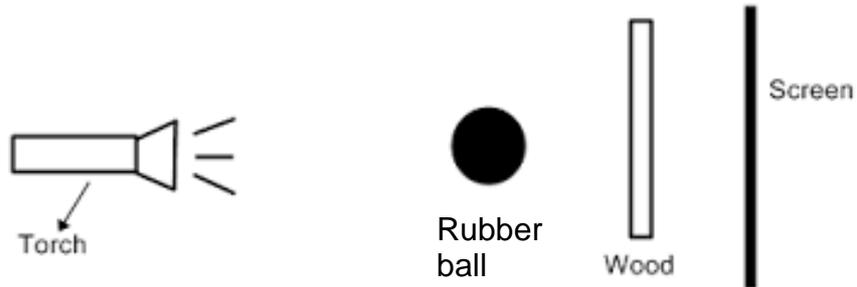


What is the best material to make part X?

- 1) metal
- 2) ceramic
- 3) plastic

12. Anita conducts an experiment with the set-up as below.

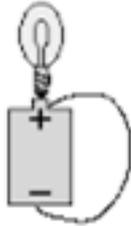
What will Anita see on the screen?



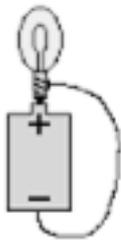
- 1)
- 2)
- 3)

13. In which set-up will the bulb light up?

1)



2)



3)

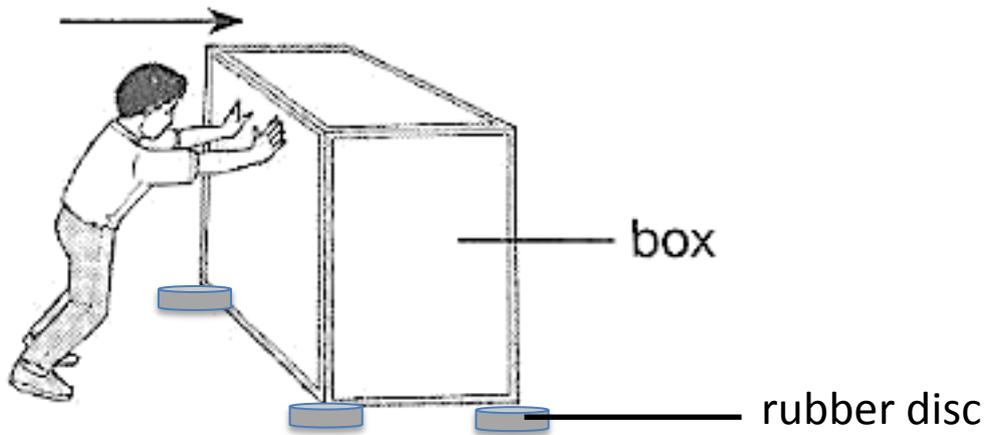


14. Mdm Yati gave three metal bars to Hafiz. She told him that one of the metal bars is a magnet. Hafiz had to conduct an experiment to find out which metal bar is a magnet.

Which of the following should Hafiz do?

- 1) Use the metal bars to attract some iron nails.
- 2) Use some wires and coil around the metal bars.
- 3) Use a string and hang each metal bar from a piece of rod.

15. Mr Rafi was having difficulty pushing a heavy box.



Aminah suggested that Mr Rafi paste four rubber discs at the bottom corner of the box to help him push it easily. How do you think the rubber discs will help him?

- 1) There will be less gravitational force.
- 2) There will be less frictional force.
- 3) The box will weigh lighter.

16. Faris set up three electric circuits using the same type of batteries, bulbs and wires. **All are in working condition.** In which circuit is the **Bulb Y** the dimmest?

