

Index No.

DOB

# 50/1

SCIENCE  
PAPER 1

BOARD OF EXAMINATIONS  
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2014

SCIENCE  
PAPER 1

Time: 40 minutes

**Instructions:**

1. Write your Index Number and Date of Birth (DOB) in the box provided.
2. Do not open this booklet until you are told to do so.
3. Answer ALL QUESTIONS.
4. Work as quickly and carefully as you can. If you cannot answer a question, go on to the next one. Do not waste time.
5. When you are told to stop writing put your pen down and close the booklet.
6. You are given 5 minutes to look through the question paper.

|                     |  |
|---------------------|--|
| Marker's Code No.   |  |
| Marker's Signature  |  |
| Checker's Code No.  |  |
| Checker's Signature |  |

**MARKS**





Answer all questions. Choose the correct answer and write the letter (A, B, C or D) in the answer box.

1. All of the following are animals with backbones **except** \_\_\_\_\_.

- A. dolphin
- B. jellyfish
- C. shark
- D. turtle

☐

2. Which of the following foods is a good source of Vitamin C?

- A. Bread.
- B. Fish.
- C. Orange.
- D. Potatoes.

☐

3. How does a lion adapt to its habitat?

- A. A strong jaw and large canines help to tear food.
- B. It can eat long grass when it is hungry.
- C. Powerful leg muscles allow it to walk slowly.
- D. Yellow fur helps it to be seen by other animals.

☐

4. Which of the following is a clean source of energy?

- A. Coal.
- B. Gas.
- C. Oil.
- D. Wind.

☐

5. When an ice block is left out of the freezer, the ice block melts. It changes from \_\_\_\_\_.

- A. gas to liquid
- B. liquid to gas
- C. solid to gas
- D. solid to liquid

☐

6. Which of the objects is a good conductor of heat?

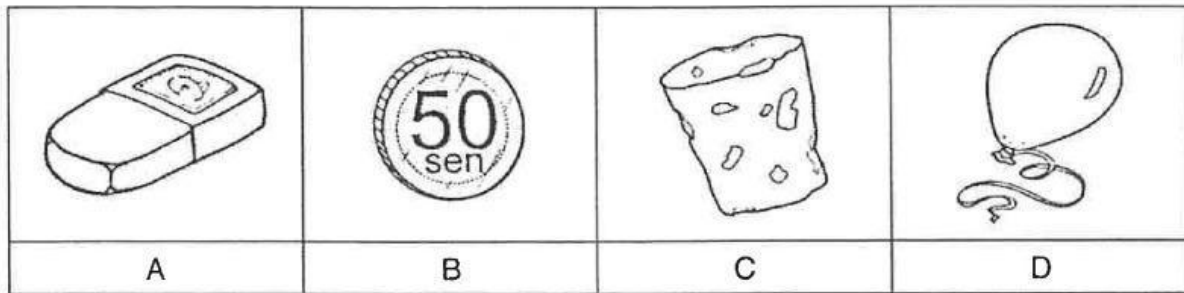


Figure 1

☐

7. Which of the following medicinal drugs help to relieve headache?

- A. Antacids.
- B. Antibiotics.
- C. Cough syrup.
- D. Painkillers

☐

8. Which of the following statements is **incorrect**?

- A. The roots help to hold the plant.
- B. The roots hold up the leaf.
- C. The roots take in water and minerals.
- D. There are two main types of roots.

☐

9. What type of thermometer is shown in Figure 2?



Figure 2

- A. Clinical thermometer.
- B. Datalogger with heat sensor.
- C. Digital thermometer.
- D. Wall thermometer.

☐

10. Look at Figure 3 below.

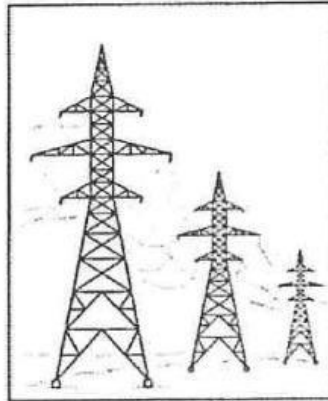


Figure 3

Figure 3 shows \_\_\_\_\_ with wires carrying high voltage electricity.

- A. powerlines
- B. power stations
- C. substations
- D. transformers



11. What animals have the same life cycle as in Figure 4?

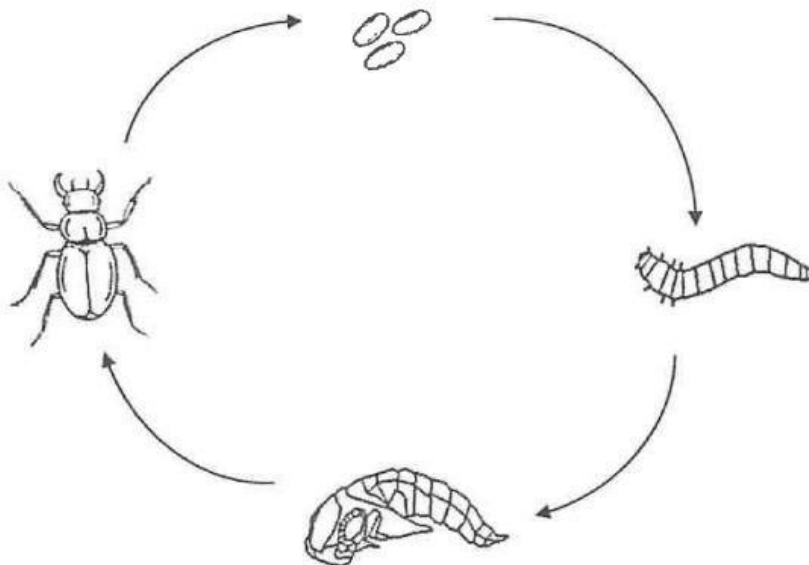


Figure 4

- A. Dragonfly
- B. Frog
- C. Grasshopper
- D. Mealworm



12. Nabil is using a hammer to pull out a nail from the wall as shown in Figure 5.

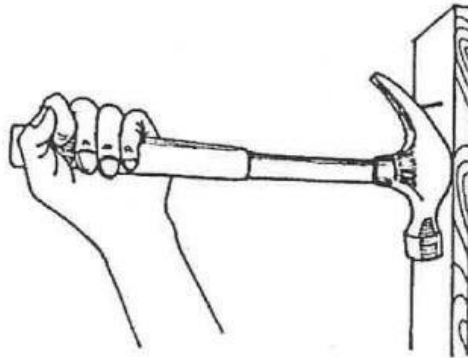


Figure 5

Name the simple machine used in the activity in Figure 5.

- A. Inclined plane.
- B. Lever.
- C. Wedge.
- D. Wheel and axle.

☐

13. Najib set up an experiment and recorded his findings in Table 1 below.

| Stay on top of the water | Fall to the bottom of the water |
|--------------------------|---------------------------------|
| Pencil                   | Key                             |
| Toothpick                | Marble                          |
| Pingpong ball            | Nail                            |

Table 1

Which of the property of materials can be used to represent Najib's findings?

- A. Float and flexible.
- B. Float and sink
- C. Hard and soft.
- D. Soft and sink.

☐

14. Which of the following is **not** the root of the plant?

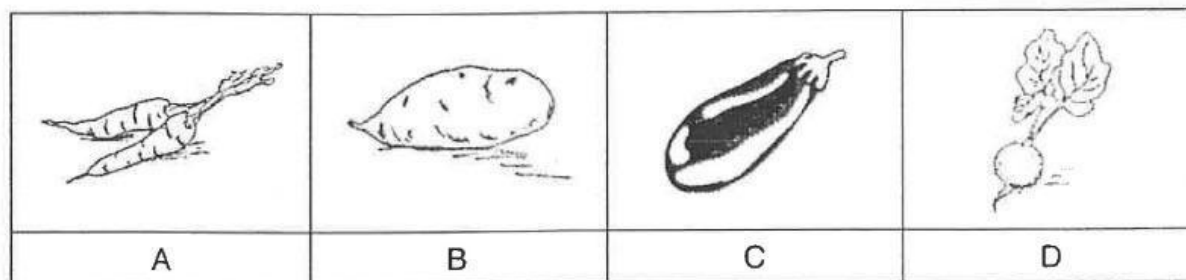


Figure 6

15. Study the flowchart below carefully. It shows how some plants can be classified.

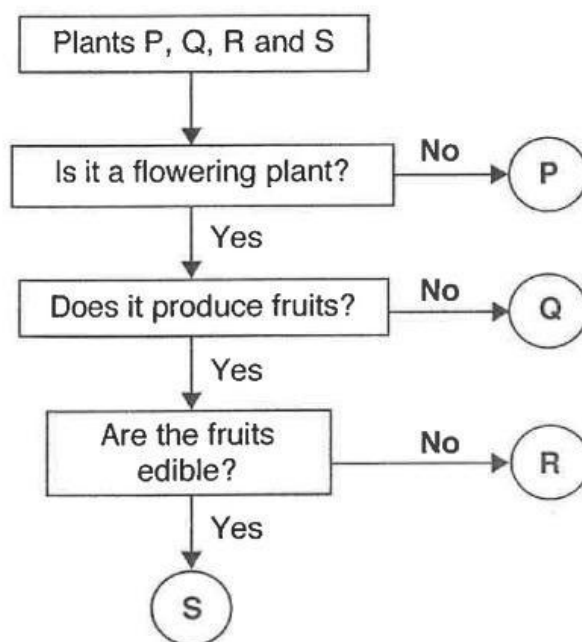


Figure 7

Which letter represents a fern?

- A. P
- B. Q
- C. R
- D. S



16. Figure 8 shows a man pushing his bicycle up a hill. Where does he get the energy to push his bicycle?



Figure 8

- A. From the bicycle he is pushing.
- B. From the exercise he did earlier.
- C. From the food he has eaten.
- D. From the ground he is walking on.

☐

17. How long does it take for the Moon to revolve around the Earth?

- A. 24 hours.
- B. 28 days.
- C.  $365\frac{1}{4}$  days.
- D. 366 days.

☐

18. Which part of the mushroom produces spores?

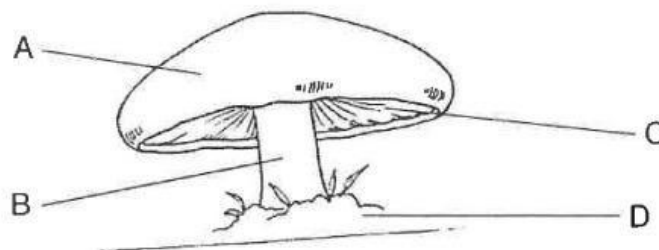


Figure 9

☐



19. Why do we need to use disinfectants to clean floors, bathrooms and toilets?

- A. Disinfectants can kill animals that spread diseases.
- B. Disinfectants can kill germs that cause diseases.
- C. Disinfectants make the floors smooth and shiny.
- D. Disinfectants protect the tiles from damage.



20. Look at the picture in Figure 10 carefully.



Figure 10

How is the boy's action dangerous?

- A. Inserting objects into electrical circuits.
- B. Switching off the power supply.
- C. Touching appliances or switches with dry hand.
- D. Touching the bare or broken wires.



21. Figure 11 shows a pair of lungs which are responsible for breathing. Which of the following is in the **correct** order when we breathe in?

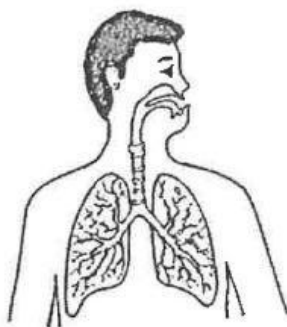


Figure 11

- A. Lungs → nose → windpipe
- B. Nose → windpipe → lungs
- C. Nose → lungs → windpipe
- D. Windpipe → nose → lungs



22. Figure 12 shows an experiment using a glass jar containing several objects.

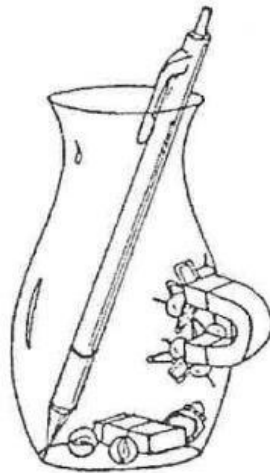


Figure 12

A magnet is placed outside the wall of the jar. The paperclips and thumbtacks are attracted to the magnet. What does the experiment show?

- A. All metals are magnetic objects.
- B. Magnets can only attract paper clips.
- C. Magnetic objects are attracted to the magnet.
- D. Non-magnetic objects are attracted to the magnet.



23. Which action in Figure 13 shows one way in the conservation of water?

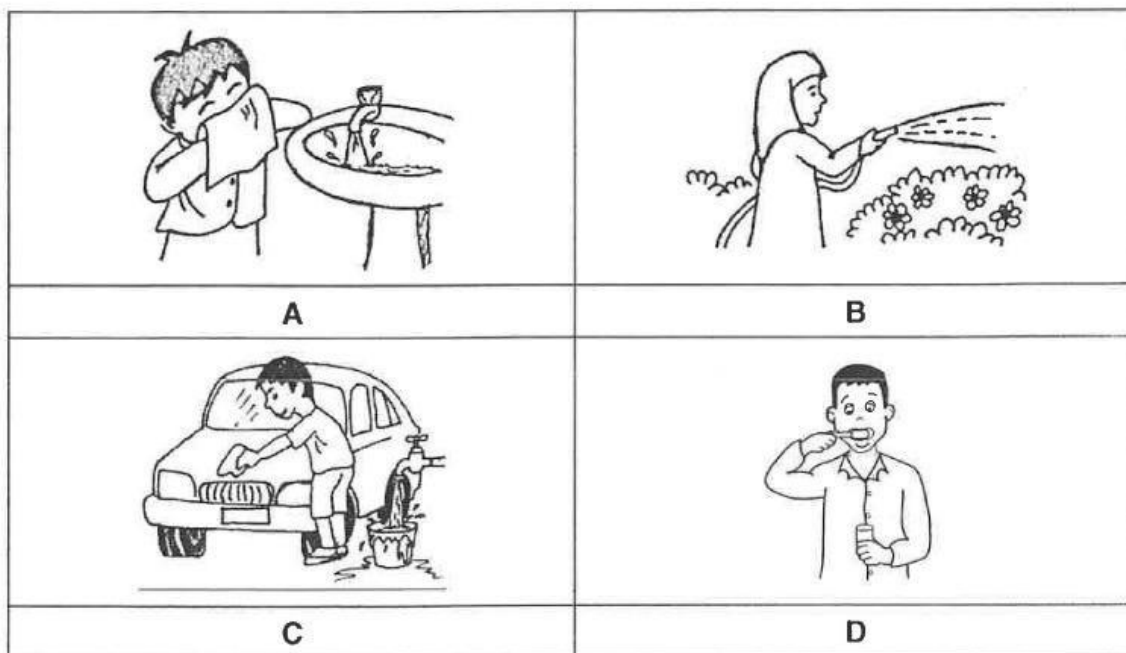


Figure 13



24. Which of the following actions can prevent the spread of disease by the animal in Figure 14?



Figure 14

- A. Always cover your food with a food cover.
- B. Empty out or overturn any water containers around your home.
- C. Take a shower or bath in the morning and at night.
- D. Wash your hands regularly.



25. Figure 15 shows the rotation of the Earth on its axis. *W*, *X*, *Y* and *Z* are four places on the Earth's surface.

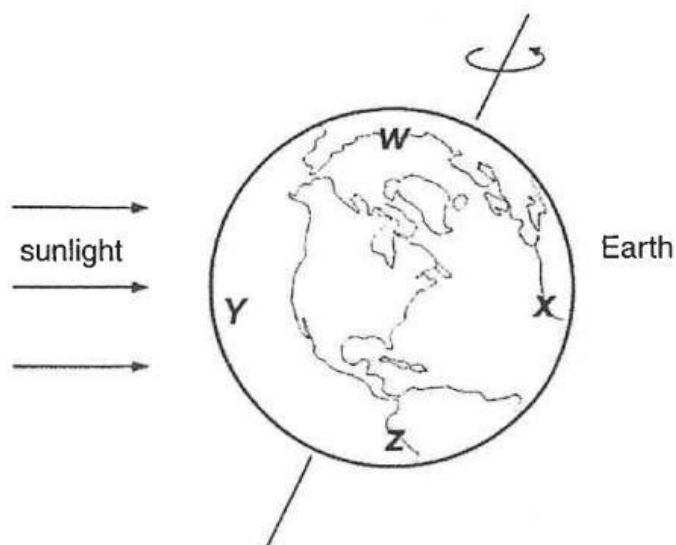


Figure 15

After 12 hours, which places will experience daytime?

- A. *W* and *X*
- B. *X* and *Z*
- C. *W* and *Y*
- D. *Y* and *Z*



26. Study Figure 16 below carefully.

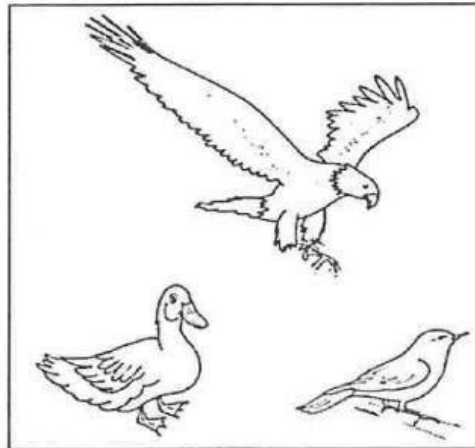


Figure 16

Which of the following animals is in the same group with the animals as shown in Figure 16?

- A. Bee.
- B. Penguin.
- C. Platypus
- D. Snake.



27. Figure 17 shows a few ice cubes added to a beaker of hot water.

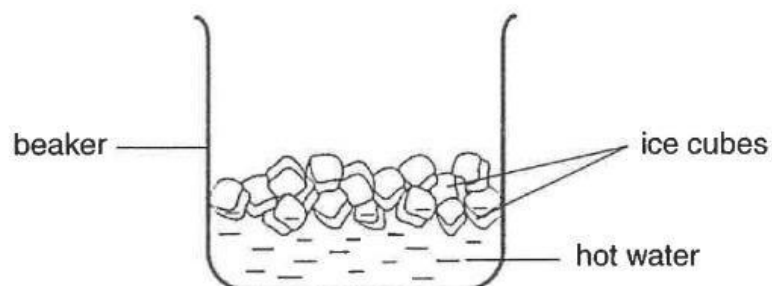


Figure 17

What happens to the water in the beaker?

- A. Its temperature drops.
- B. Its temperature rises.
- C. Its volume decreases.
- D. Its volume does not change.



28. Zahara wanted to use a lever to lift up a load as shown in Figure 18 below.

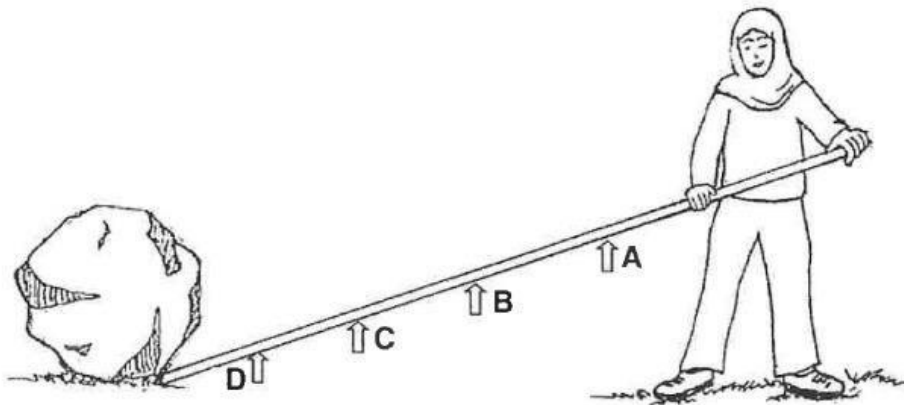


Figure 18

In which position should she place the fixed point (pivot) so that she can move the load with the least effort?

☐

29. A rubber ball is thrown and hits a wall. What happens to the ball after it hits the wall?

- A. The ball changes direction.
- B. The ball changes its shape.
- C. The ball goes up the wall.
- D. The ball stops moving.

☐

30. During a thunderstorm you see the lightning before you hear the thunder. This is because \_\_\_\_\_.

- A. light travels in a straight line
- B. light travels faster than sound
- C. sound travels a longer distance than light
- D. sound and light travel at the same speed

☐

|             |  |
|-------------|--|
| TOTAL MARKS |  |
|-------------|--|

END OF PAPER