

Index No.	
DOB	

50/1
SCIENCE
PAPER 1

BOARD OF EXAMINATIONS
NEGARA BRUNEI DARUSSALAM
PENILAIAN SEKOLAH RENDAH
2016

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



50/1/S/5008

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

1. Study the diagram in Figure 1.

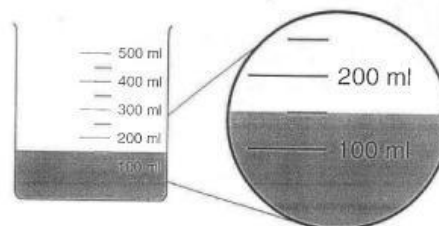


Figure 1

What is the volume of water in the beaker?

- A. 100 ml
- B. 150 ml
- C. 200 ml
- D. 250 ml

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2. Study the diagram in Figure 2.

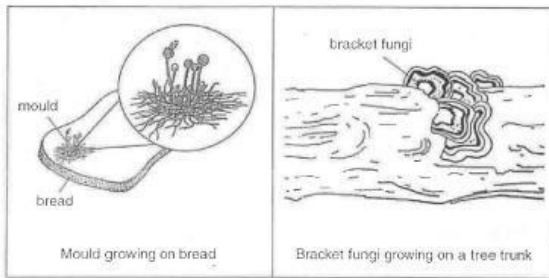


Figure 2

How are the two organisms in Figure 2 **similar** to each other?

- A. Both of them have roots and leaves
- B. Both of them make their own food
- C. They feed on other things for food
- D. They need sunlight to grow bigger



3. Figure 3 shows three electrical appliances.



Figure 3

What happens when these appliances are switched on?

- A. Electrical energy is changed to heat energy.
- B. Electrical energy is changed to movement energy.
- C. Stored energy is changed to electrical energy.
- D. Sound energy is changed to heat energy.



4. Study the diagram in Figure 4.

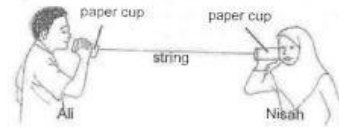


Figure 4

When Ali speaks into the paper cup, Nisah can hear what he is saying clearly.

What does this experiment shows?

- A. Sound can travel through air.
- B. Sound can travel through liquid.
- C. Sound can travel through solid.
- D. Sound can travel through vacuum.



5. Study the diagram in Figure 5,

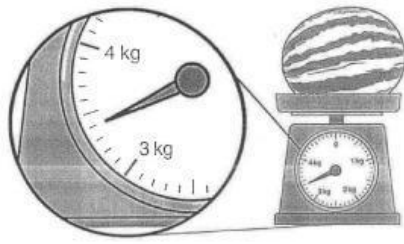


Figure 5

How heavy is the watermelon?

- A. 3.2 kilogram
- B. 3.3 kilogram
- C. 3.4 kilogram
- D. 3.5 kilogram

☐

6. Figure 6 shows the different phases of Moon.

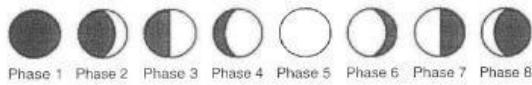


Figure 6

Which phase represents the Full moon?

- A. Phase 1
- B. Phase 3
- C. Phase 5
- D. Phase 7

☐

7. Two candles, A and B, of the same length and size were placed side by side. Candle B was then lit and burned for an hour. After one hour, Candle B was measured again in Figure 7.

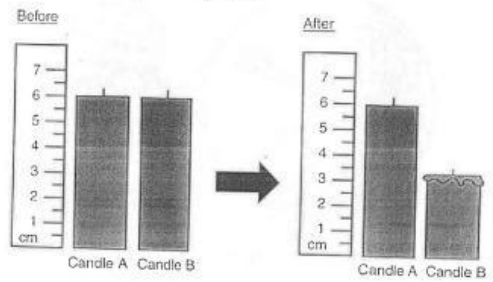


Figure 7

How many centimeters **shorter** is Candle B after it has been burnt?

- A. 2.0 cm
- B. 2.5 cm
- C. 3.0 cm
- D. 3.5 cm

☐

8. Figure 8 shows a bus driver using the side mirror to see the car behind him.

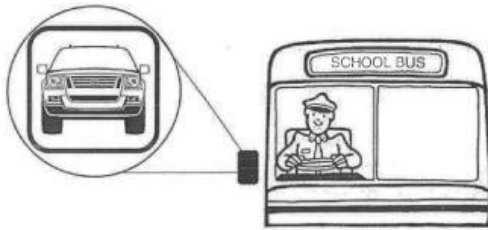


Figure 8

Why was the bus driver able to see the car behind him?

- A. The mirror gives out light to the car behind him.
- B. The mirror blocks light from the car behind him.
- C. The mirror reflects light from the car behind him.
- D. The mirror takes in light from the car behind him.

☐

9. Study the diagram in Figure 9.



Figure 9

Which of these two substances form a **solution** when they are stirred together?

- A. Sand and salt
- B. Sand and water
- C. Sugar and water
- D. Sugar and salt

☐

10. Figure 10 shows a water cycle.

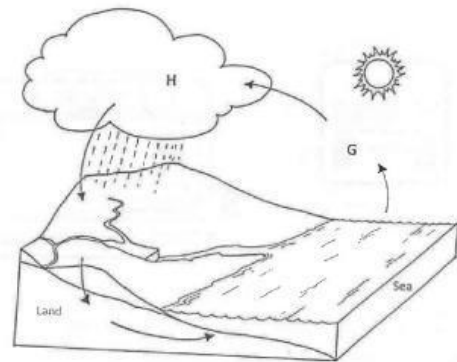


Figure 10

What is happening at G?

- A. Water vapour condenses into water droplets
- B. Water from the sea evaporates into water vapour
- C. Water from the sea freezes into water vapour
- D. Clouds melt into water droplets and falls as rain

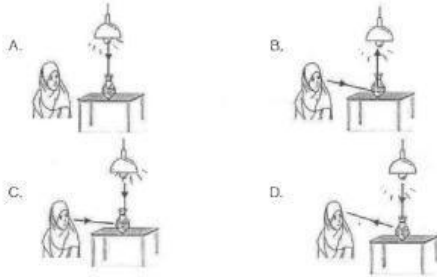
☐

11. Study the diagram in Figure 11.



Figure 11

Which of the following explains how Mona can see the vase on the table?



12. A man with his parachute jumps off an airplane and glides down the air in Figure 12.

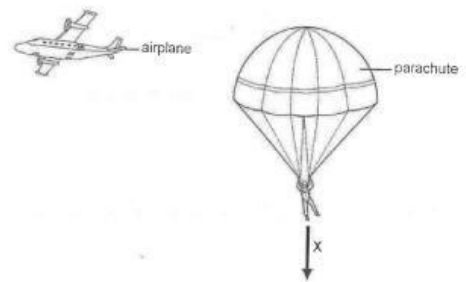


Figure 12

What type of force is taking place at X?

- A. Elastic force
- B. Gravitational force
- C. Frictional force
- D. Magnetic force



11

13. A bar magnet is hung freely from a retort stand in Figure 13.

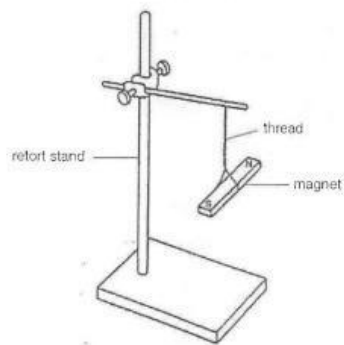


Figure 13

Which direction will the magnet always points to?

- A. north-south direction
- B. north-west direction
- C. south-east direction
- D. south-west direction



501/5/0008

Turn over

12

14. One morning, Mimi saw water droplets on the outside of her glass window. Later in the afternoon, she noticed that the water droplets have disappeared.

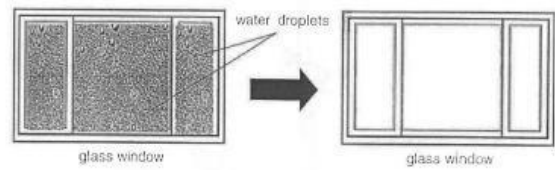


Figure 14

Which of the following **best** explains the disappearance of the water droplets in Figure 14?

- A. The water droplets condensed into water vapour.
- B. The water droplets evaporated into water vapour.
- C. The water droplets turned into ice and fell down.
- D. The strong wind blew the water droplets away.



501/5/0008

15. Figure 15 shows five balloons representing five planets in the Solar System. The balloons are **not** arranged in order.

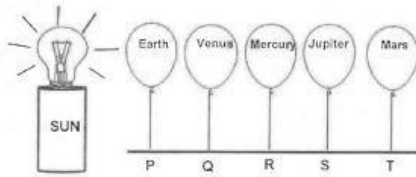


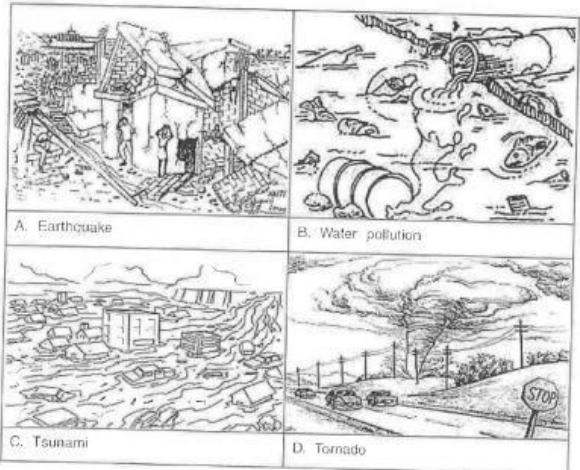
Figure 15

Which of the following shows the **correct** arrangement, starting from the planet nearest to the Sun?

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

☐

16. Which disaster is caused by human activities?



A. Earthquake

B. Water pollution

C. Tsunami

D. Tornado

☐

17. Study the diagram in Figure 16.

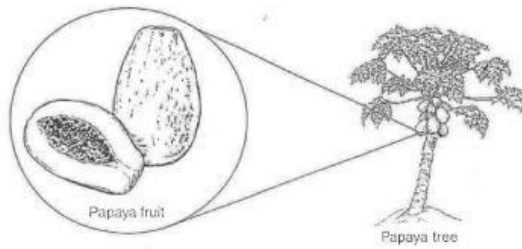


Figure 16

What is the function of a fruit?

- A. to protect the seeds
- B. to provide food for the seeds
- C. to stop the seeds from growing
- D. to store water for the seeds

☐

18. Figure 17 shows a worker using a simple machine to lift up a heavy box.

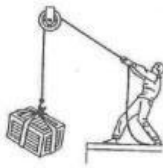


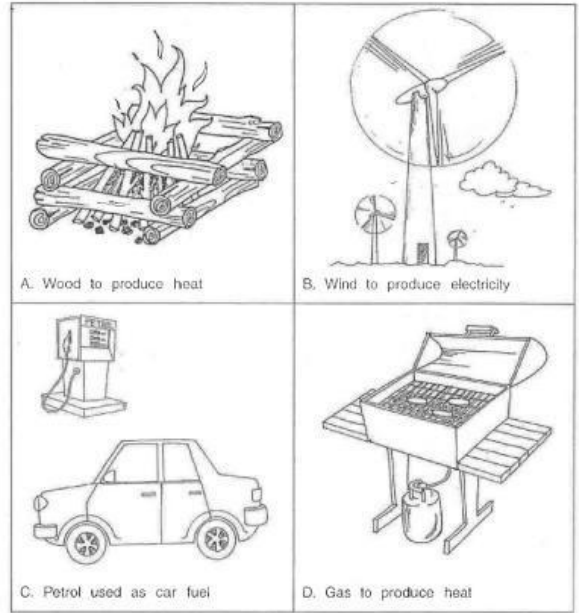
Figure 17

Which type of simple machine is shown in Figure 17?

- A. gear
- B. inclined plane
- C. lever
- D. pulley

☐

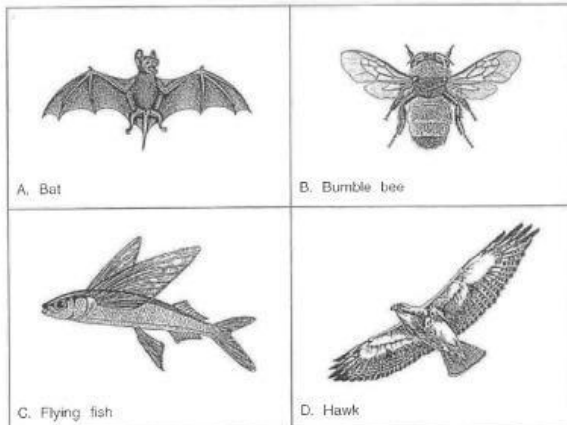
19. Which of the following uses clean source of energy to reduce air pollution?


☐

20. Ameera recorded the characteristics of Animal Z in her notebook shown below.



Which of the following is Animal Z?



21. Figure 18 shows Rizman running a 100 metre race.



Figure 18

Which of the following body systems work together to enable Rizman to complete the race?

- A. Breathing and movement systems only
- B. Breathing and transport systems only
- C. Breathing, movement and transport systems
- D. Breathing, digestive and transport systems



22. Figure 19 shows a leaflet with some instructions on brushing teeth.



Figure 19

Read the instructions in Figure 19 carefully. Which change in the following instructions would help **conserve the most water**?

- A. Change instructions in Step 4 to 'Brush for three minutes only'.
- B. Change instructions in Step 2 to 'Turn the water off before brushing'.
- C. Change instructions in Step 5 to 'Rinse mouth with the running water'.
- D. Change instructions in Step 3 to 'Use less toothpaste on the toothbrush'.

50/1/5/008

Turn over

23. Figure 20a shows three animals.

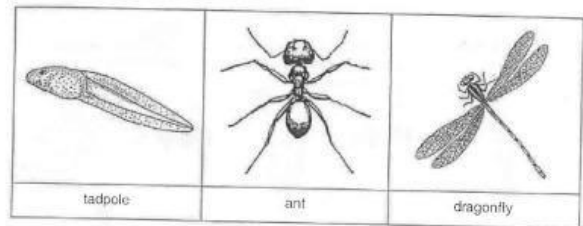


Figure 20a

These animals can be seen in different parts, **O**, **P** and **Q** of the pond shown below.

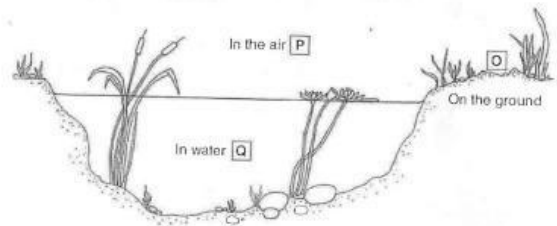


Figure 20b

Study adaptation of each animal in Figure 20a. Which of the animals are most likely to be found at **O**, **P** and **Q** in Figure 20b?

	O	P	Q
A.	ant	dragonfly	tadpole
B.	ant	tadpole	dragonfly
C.	dragonfly	ant	tadpole
D.	tadpole	dragonfly	ant

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24. Study the diagram in Figure 21.

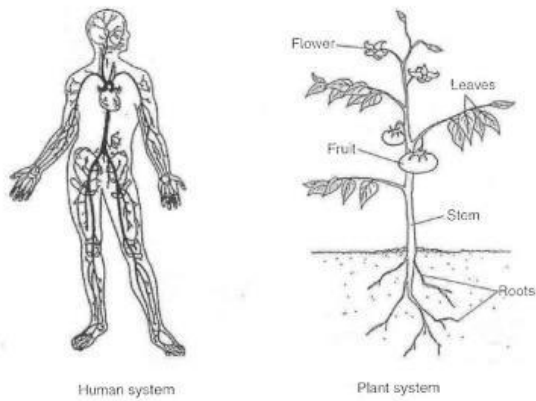


Figure 21

How are the two types of systems in Figure 21 **similar** to each other?

- A. Both systems transport useful substances.
- B. Both systems give out oxygen during the day.
- C. Both systems make their own food during the day.
- D. Both systems pump blood to all parts of the body.

☐

25. Haziq shines a torch at two objects shown in Figure 22.

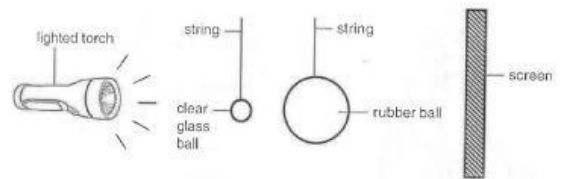
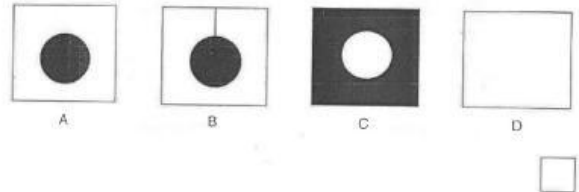


Figure 22

Which of the following images will most likely be seen on the screen?


☐

26. Hamid carried out two experiments, Experiment 1 and Experiment 2, shown in Figures 23a and 23b.

i. Experiment 1: Stroking method

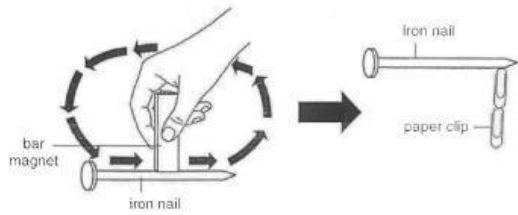


Figure 23a

ii. Experiment 2: Using electricity

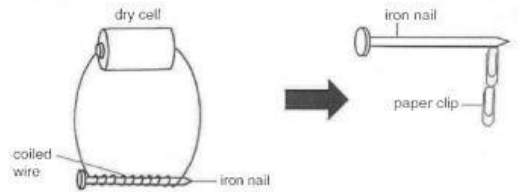


Figure 23b

What did Hamid find out from both his experiments in Figures 23a and b?

- A. Both methods have turned the iron nail into a magnet.
- B. Both methods have turned the paper clip into a magnet.
- C. Both methods have turned the iron nail into a magnetic material.
- D. Both methods have turned the iron nail into a non-magnetic material.

☐

27. Farah wants to find out if sand or sugar dissolves in water. Which of the following set-ups should she choose to ensure that her experiment is a fair test?

A.	1 teaspoon of sand	1 teaspoon of sugar
B.	2 teaspoons of sand	1 teaspoon of sugar
C.	1 teaspoon of sand	1 teaspoon of sugar
D.	1 teaspoon of sand	2 teaspoons of sugar

☐

28. Study the chart in Figure 24.

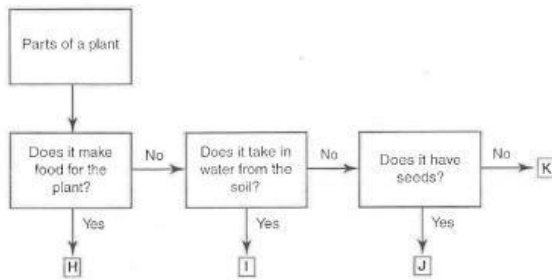


Figure 24

Which of the following **correctly** identifies the plant parts?

	H	I	J	K
A.	leaf	root	flower	stem
B.	flower	leaf	root	stem
C.	leaf	stem	root	flower
D.	stem	root	flower	leaf

☐

29. Teacher Hamidah asks her pupils to observe the animal in Figure 25 and describe their observations accurately.

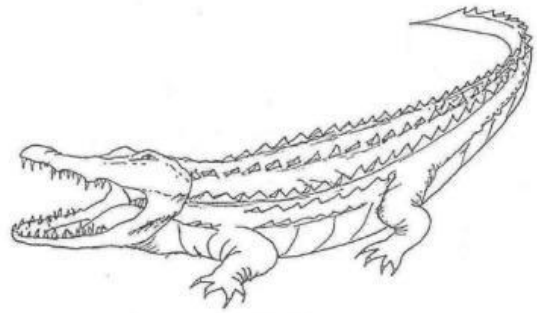


Figure 25

Which of the following is the **best** example of a **good scientific observation** for Figure 25?

- A. The animal has **scary looking** teeth. I think it feeds on chicken.
- B. The animal has **sharp teeth**. It has dry scaly skin and a long tail.
- C. The animal is fat and scary. It has a very ugly long tail.
- D. The animal is fat with sharp teeth. Its skin is dry. It looks hungry.

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30. Azim sets up an experiment in Figure 26 to find out if a smooth or rough surface will slow down a moving ball.

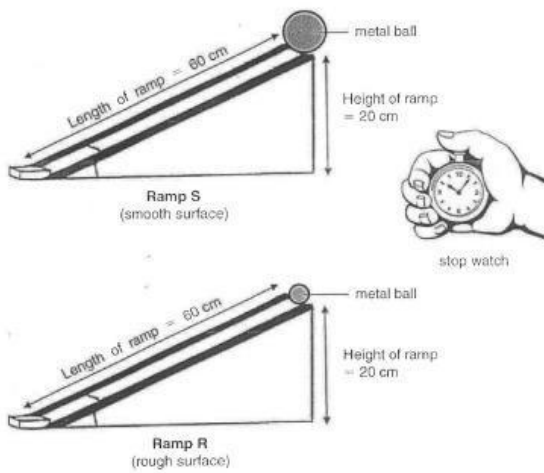


Figure 26

He covers **Ramp S** with a smooth surface and **Ramp R** with a rough surface. Two metal balls of different sizes are placed at the same starting point and will be released at the same time. However, Azim's experiment is **not** a fair test.

What should he change to correct his set-up in Figure 26?

- A. Make the length and height of Ramp S longer.
- B. Make the length and height of Ramp R shorter.
- C. Use the same type of surfaces for both ramps.
- D. Use metal ball of the same size for both ramps.

☐

TOTAL MARKS

END OF PAPER