

Index No.

DOB

50/1

SCIENCE
PAPER 1

BOARD OF EXAMINATIONS
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2017

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

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2

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

1. Harris kept caterpillars of similar sizes in identical glass bottles as shown in Figure 1.

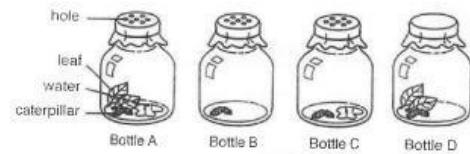


Figure 1

In which bottle, would the caterpillar survive the longest?

- A. Bottle A
- B. Bottle B
- C. Bottle C
- D. Bottle D

2. Study Figure 2.

Group A	Group B
 Chicken  Snake	 Whale  Dolphin

Figure 2

How are the animals in group A and group B being classified?

- A. Body covering
- B. The way they move
- C. The way they reproduce
- D. Types of food they eat



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3. Study the chart in Figure 3.

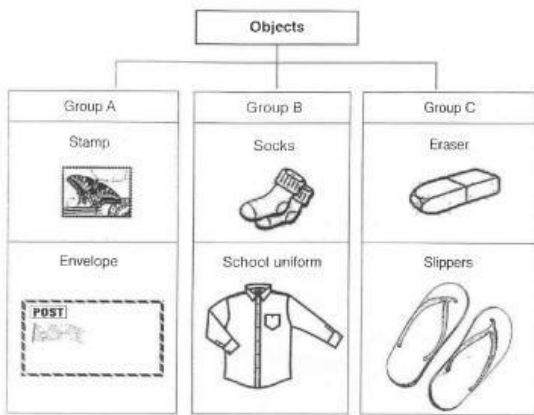


Figure 3

The objects in the chart are grouped according to _____.

- A. their shapes and sizes
- B. their colours and weight
- C. the material they are made of
- D. the usage in our daily life



4. What adaptation does a grasshopper has which helps it to avoid being caught by its predator.

- W : It can camouflage itself in the grass.
- X : It can hop away quickly.
- Y : It has poisonous stings.
- Z : It tastes bad.

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



5. Ali flicked a ruler on the edge of a table as shown in Figure 4.

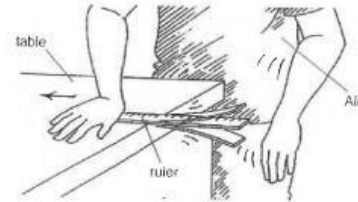


Figure 4

Which of the following statement **best** describes his experiment?

- A. Sound becomes louder as the ruler is left vibrating.
- B. Sound can only travel through solids and gases.
- C. Sound is produced by the vibration of his hand
- D. Sound is produced by the vibration of the ruler



6. Figure 5 shows a moving ping pong ball when hit using a ping pong bat.

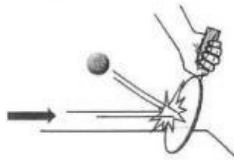


Figure 5

What effect of the force is shown in Figure 5?

- A. The force causes the stationary object to move.
- B. The force changes the direction of the moving object.
- C. The force changes the shape of the object.
- D. The force slows down the moving object.



7. Figure 6 shows an experiment using three ring magnets.

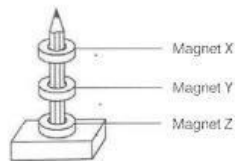
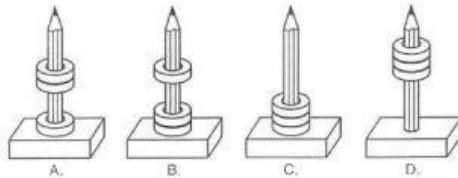


Figure 6

What will happen if magnet Z is flipped?



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Turn over

8. Figure 7 shows the different stages of the life cycle of a plant.

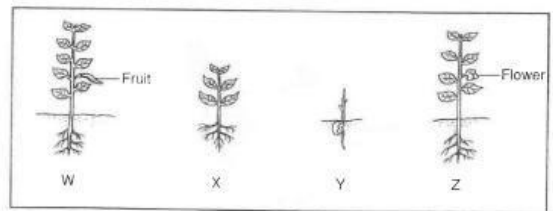


Figure 7

Arrange the options, W, X, Y and Z, in the correct order of growth.

- A. Y, W, X, Z
- B. Y, X, W, Z
- C. Y, X, Z, W
- D. Y, W, Z, X



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9. Rosli wants to find out whether the sugar and the sand in Figure 8 can dissolve in water.

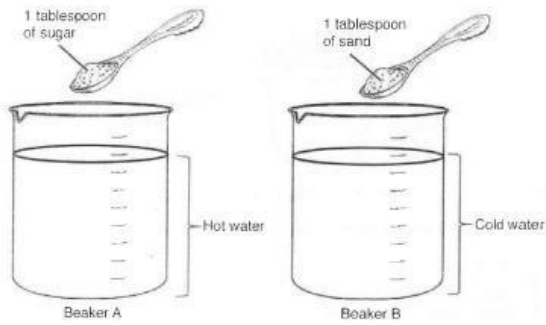


Figure 8

The experiment is **not** a fair test. How can he improve his experiment?

- A. Use beakers of different sizes.
 B. Use different amounts of water in the beakers.
 C. Use the same one tablespoon of sugar for both beakers.
 D. Use the same temperature of water for both beakers.
10. What is the term used to describe substances that can be dissolved in water?
- A. conductor
 B. magnetic
 C. opaque
 D. soluble

11. Figure 9 shows a glass of iced cold water that was placed on a table.

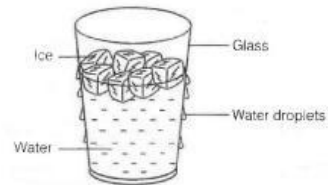


Figure 9

Where do the water droplets come from?

- A. Glass
 B. Ice
 C. Water from inside the glass
 D. Water vapour from the air

12. Figure 10 shows an investigation.

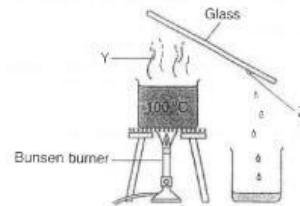


Figure 10

What is process Y and Z?

	Y	Z
A.	Evaporation	Condensation
B.	Evaporation	Freezing
C.	Condensation	Evaporation
D.	Condensation	Melting

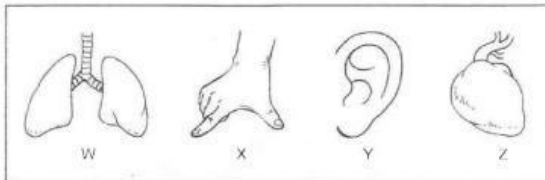
13. Which of the following is wasting water at home?

- A. Brushing teeth using a glass of water to clean.
- B. Taking a bath using a bucket.
- C. Turn off the taps properly after using them.
- D. Washing the car using a hose.

14. Figure 11 shows a man smoking a cigarette.



Figure 11



Which organs will be damaged by smoking cigarettes?

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



15. Figure 12 shows waste that has not been disposed of properly.



Figure 12

What is the effect of this improper disposal of waste?

- A. Drought
- B. Floods
- C. Spreading of disease
- D. Water pollution



16. Figure 13 shows a situation on a busy road.

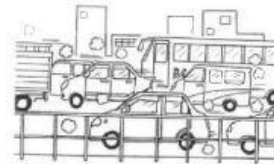


Figure 13

What will be the effect to the environment from the activity in Figure 13?

- A. Air pollution
- B. Land pollution
- C. Light pollution
- D. Water pollution



17. Choose the correct food path in our digestive system.

- A. Gullet → Mouth → Stomach → Small intestine → Large intestine → Rectum
- B. Mouth → Gullet → Stomach → Small intestine → Large intestine → Rectum
- C. Mouth → Rectum → Stomach → Small intestine → Large intestine → Gullet
- D. Mouth → Stomach → Gullet → Small intestine → Large intestine → Rectum

18. Razak was running and then he measures his breathing rate and heartbeat.

Which set of readings is Razak likely to have?

	Breathing rate (Number of breaths per minute)	Heartbeat (Number of beats per minute)
A.	10	60
B.	15	70
C.	20	50
D.	25	95

☐

19. Figure 14 shows an investigation on a Carnation flower.

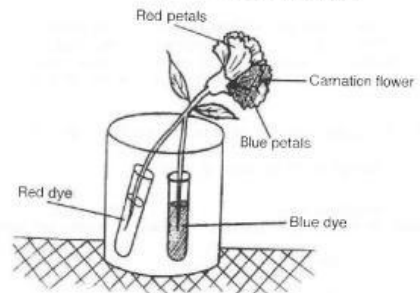


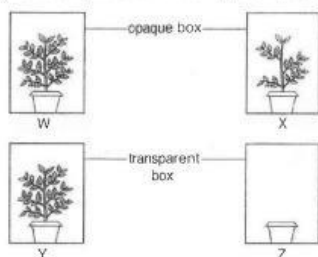
Figure 14

What does the experiment show?

- A. The flower absorbs blue dye faster than red dye.
- B. The flower absorbs red dye faster than blue dye.
- C. The flower stalks transport water to the flower.
- D. The water can only be stored in the petals of the flower.

☐

20. Azim is going to investigate the effect of light on plants.



Which two of the experimental set-ups should he use to ensure a fair experiment?

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

☐

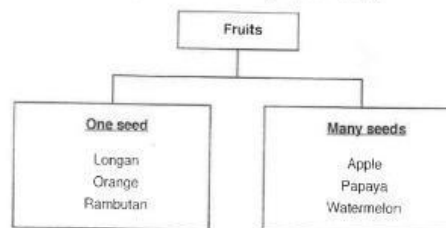
21. Observe the flower in Figure 15. Which is the female part of the flower?



Figure 15

☐

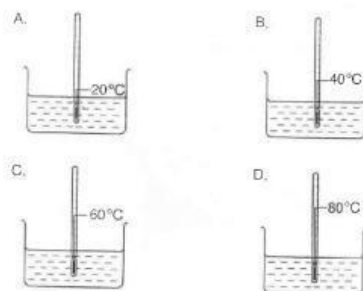
22. Which of the following fruits has been grouped wrongly?



- A. Apple
- B. Orange
- C. Papaya
- D. Rambutan

☐

23. Which tub of water should Nordin use to warm a can of coffee at 30°C as quickly as possible?


☐


24. Linda set up an experiment to investigate the properties of light as in Figure 16.

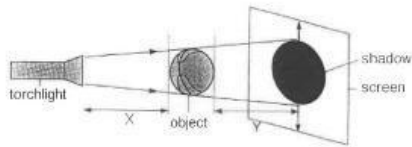


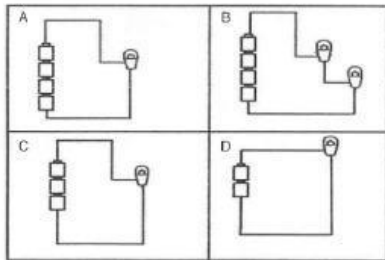
Figure 16

What should Linda do if she wants to find out how the distance between the object and the screen will affect the size of the shadow?

- A. Increase the height of the screen.
- B. Move the object along Y.
- C. Move the torchlight along X.
- D. Move the torchlight along Y.

☐

25. Study the electric circuits below carefully. All dry cells and bulbs are of the same type and size.



In a fair test experiment, which two set ups will the bulb have **different** brightness?

- A. A and B only
- B. A and C only
- C. B and C only
- D. C and D only

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Turn over

26. Figure 17 shows a situation about the Earth.

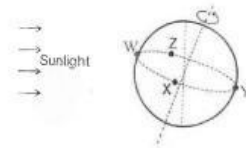


Figure 17

W, X, Y and Z represent different places on Earth. Which of the places will experience night time?

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

☐

27. Figure 18 shows the position of the moon orbiting the earth.

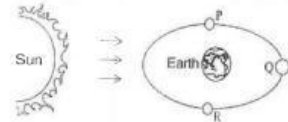


Figure 18

Which are the correct phases of the moon based on the positions of the moon as shown in Figure 18?

	P	Q	R
A.			
B.			
C.			
D.			

☐

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28. Cikgu Sotea asked the following question to her pupils.

"How does Dengue spread?"

Her pupils answered as below. Who answered correctly?

- A. Ali said, "By aedes mosquitoes"
- B. Farah said, "By anopheles mosquitoes"
- C. Hafiyah said, "By houseflies"
- D. Harisah said, "By rats"



29. Figure 19 shows a paper cutter.

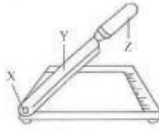


Figure 19

What does X, Y and Z represent?

	Fulcrum	Effort	Load
A.	X	Y	Z
B.	X	Z	Y
C.	Y	X	Z
D.	Y	Z	X



30. Figure 20 shows the classification of six types of materials into groups X, Y and Z.

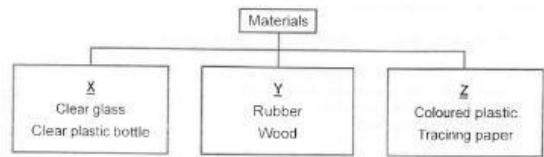


Figure 20

What does X, Y and Z represent?

	X	Y	Z
A.	Opaque	Translucent	Transparent
B.	Opaque	Transparent	Translucent
C.	Transparent	Opaque	Translucent
D.	Transparent	Translucent	Opaque



TOTAL MARKS

END OF PAPER

