

Index No.

DOB

50/1

SCIENCE
PAPER 1

BOARD OF EXAMINATIONS
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2022

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. _____ is how much a material can be bent without breaking.

- A. Flexibility
- B. Friction
- C. Hardness
- D. Strength

☐

2. Which of the following groups of animals give birth?

- A. Dolphin, Cat and Seal
- B. Horse, Whale and Pigeon
- C. Shark, Crocodile and Rabbit
- D. Tiger, Turtle and Elephant

☐

3. 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.

☐

4. What is the term used to describe when sugar dissolved in water?

- A. Conductor
- B. Magnetic
- C. Opaque
- D. Soluble

☐

5. 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

☐

6. What type of pollution is caused by throwing rubbish into drains, canals and rivers?

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

☐

7. Which of the following statements in Table 1 is **correctly** matched?

	Action	Effect
A	Drinking Alcohol	Can cure brain damage
B	Taking antibiotics	Can cause heart attack
C	Taking syabu	Can cure toothache
D	Smoking cigarettes	Can cause lung cancer

Table 1

☐

8. Which of the following fruits in Figure 1 are group correctly?

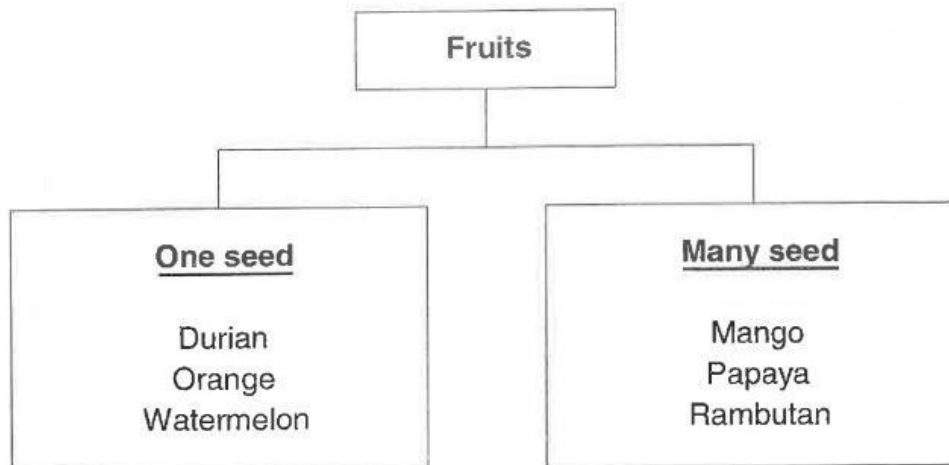
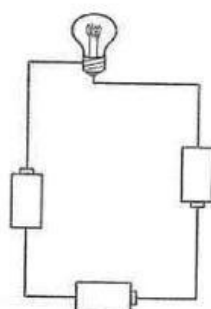


Figure 1

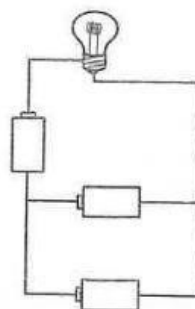
- A. Durian
- B. Orange
- C. Papaya
- D. Rambutan

☐

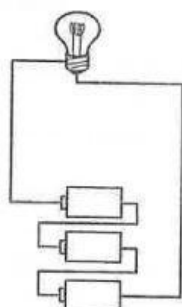

9. Four circuits using similar batteries and bulbs are shown below in Figure 2.



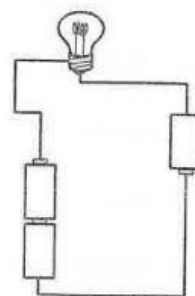
Circuit A



Circuit B



Circuit C



Circuit D

Figure 2

In which two circuits are the bulbs of equal brightness?

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



10. Which of the following classifications of food in Table 2 are correct?

	Carbohydrates	Proteins	Vitamins	Minerals
A	Kiwi	Oils	Apple	Pasta
B	Nuts	Orange	Bread	Chicken
C	Potatoes	Beef	Carrot	Shellfish
D	Rice	Tomato	Soy beans	Spinach

Table 2



11. Figure 3 shows the moon changes shape at different times of the month.

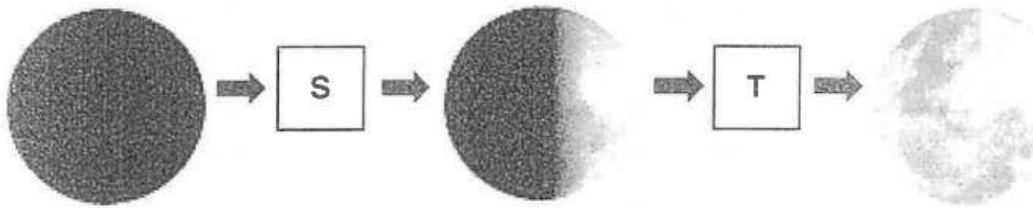


Figure 3

Which of the following in Table 3 correctly match the missing phases at S and T?

	S	T
A		
B		
C		
D		

Table 3



12. Which of the following correctly describes the process in Table 4?

	PROCESS	CHANGE OF STATE
I.	Freezing	Solid to liquid
II.	Evaporation	Liquid to gas
III.	Condensation	Gas to liquid
IV.	Melting	Liquid to solid

Table 4

- A. I and II only
- B. I and IV only
- C. II and III only
- D. III and IV only

☐

13. Which of the following activities in Table 5 will reduce air pollution?

I.	Planting more trees
II.	Haze from a forest fire
III.	Vehicles using solar energy
IV.	Factories spewing gases into air

Table 5

- A. I and II only
- B. I and III only
- C. II and IV only
- D. I, II and III only

☐


14. The melting and freezing points of water are Y while the boiling point of water is Z

Which of the following in Table 6 shows the correct combination of Y and Z?

	Y	Z
A	0°C	0°C
B	0°C	37°C
C	0°C	100°C
D	37°C	100°C

Table 6



15. Study the set-up in Figure 4.

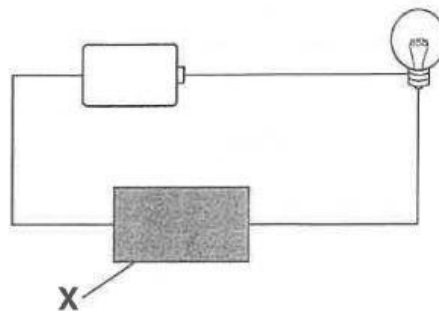


Figure 4

Which of the following materials can be X so that the bulb can light up?

- A. Copper and Rubber
- B. Copper and Steel
- C. Rubber and Glass
- D. Wood and Iron



16. Which diagram in Figure 5 shows that light is reflected?

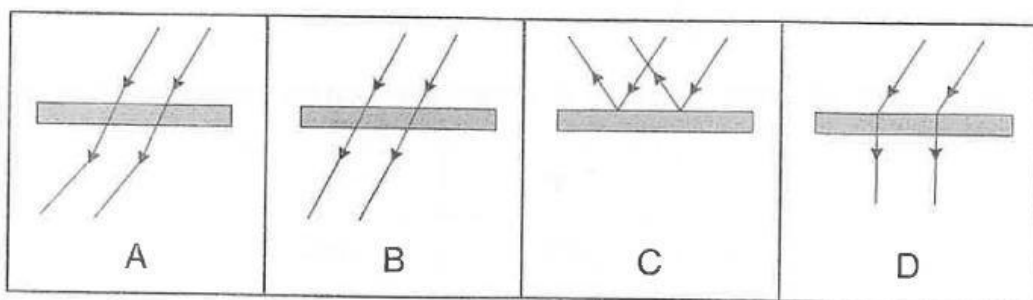


Figure 5



17. Figure 6 below shows gaseous exchange between a part of the human breathing system and a part of the human transport system.

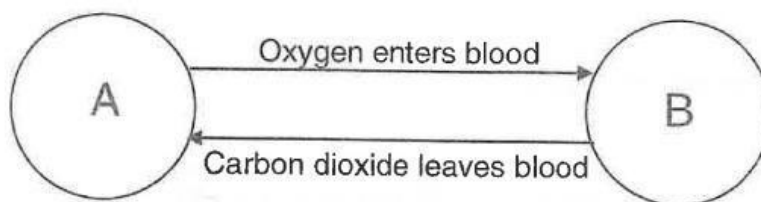


Figure 6

What does A and B represent?

	A	B
A	Lungs	Blood vessels
B	Windpipe	Heart
C	Lungs	Heart
D	Nose	Blood vessels



18. Study the classification in Table 7 below:

Animals			
Group 1	Group 2	Group 3	Group 4
Cat	Pigeon	Snake	Guppy
Whale	Eagle	Lizard	Goldfish
Elephant	Owl	Tortoise	Tuna

Table 7

In which group does **Chicken** belong to?

- A. Group 1
- B. Group 2
- C. Group 3
- D. Group 4



19. Figure 7 shows, three cardboards with small hole arranged in a straight line. The candle flame can be seen by Hamid from the other end. But, if one of the cardboards is moved slightly to one side, Hamid cannot see the candle flame from the other end.

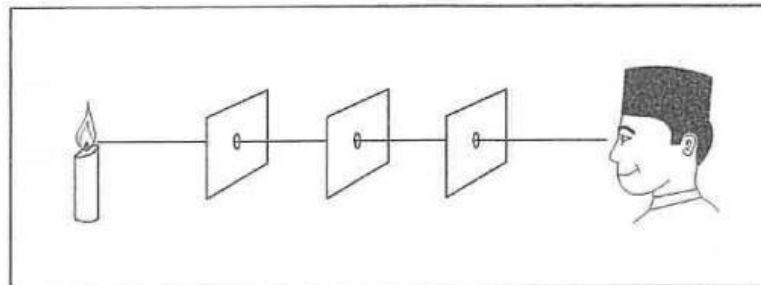


Figure 7

Why does this happen?

- A. Light can bend around corners.
- B. Light stays in one place only.
- C. Light travels in a straight line only.
- D. Light travels in a zig-zag direction.



20. Ameena carry out experiment I and II using similar plant. She put plant I in the dark and plant II outside in the open air. After four days, she recorded her observation in Table 8:

	Experiment	Result
I.	Plant was watered and left in the dark.	Leaves turned yellow and not growing healthy.
II.	Plant was watered and left outside, in the open air.	Plant is growing healthy.

Table 8

What does this experiment tell you?

- A. Plants need food to grow
- B. Plants need water to grow
- C. Plants need sunlight to grow
- D. Plants need fertilisers to grow

☐

21. Figure 8 shows a situation about the Earth.

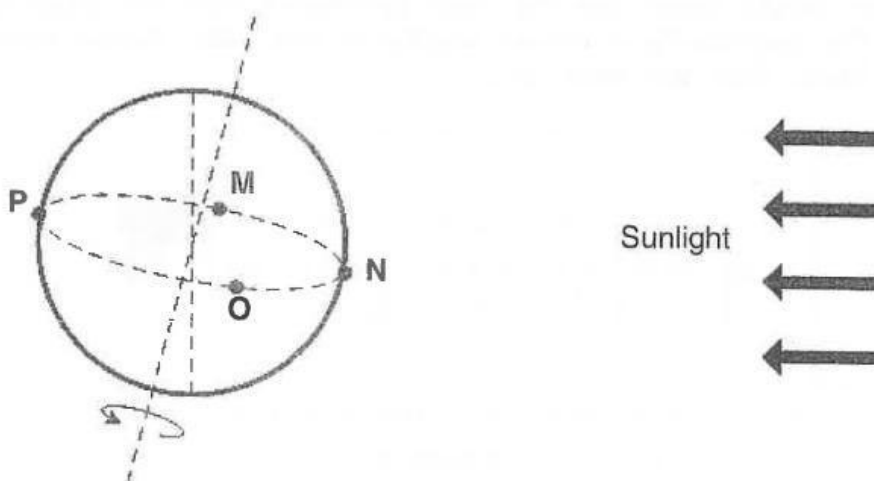


Figure 8

M, N, O and **P** represent different places on Earth. Which of this place will experience night time?

- A. M
- B. N
- C. O
- D. P

☐


22. Look at Figure 9

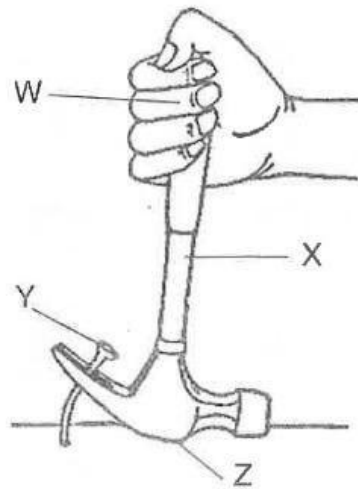


Figure 9

Which type of simple machine does Figure 9 represent and at which position W, X, Y or Z does the **fixed point** located?

	Type of simple machine	Position of fixed point
A	Inclined planes	W
B	Inclined planes	X
C	Levers	Y
D	Levers	Z



23. Cikgu Salleh asked the following question to her pupils.

"Can anyone tell me how does dengue fever spread?"

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



24. Hamdani carried out an experiment with pulleys as shown in Figure 10 below.

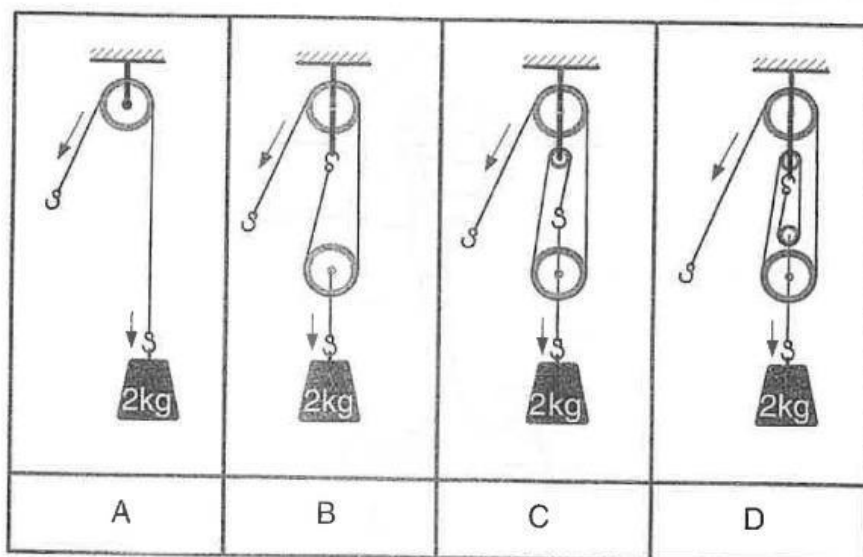


Figure 10

In which pulley system will he use more effort to lift the load?

25. Which one of the following graphs in Figure 11 shows the change in a person's heartbeat when running?

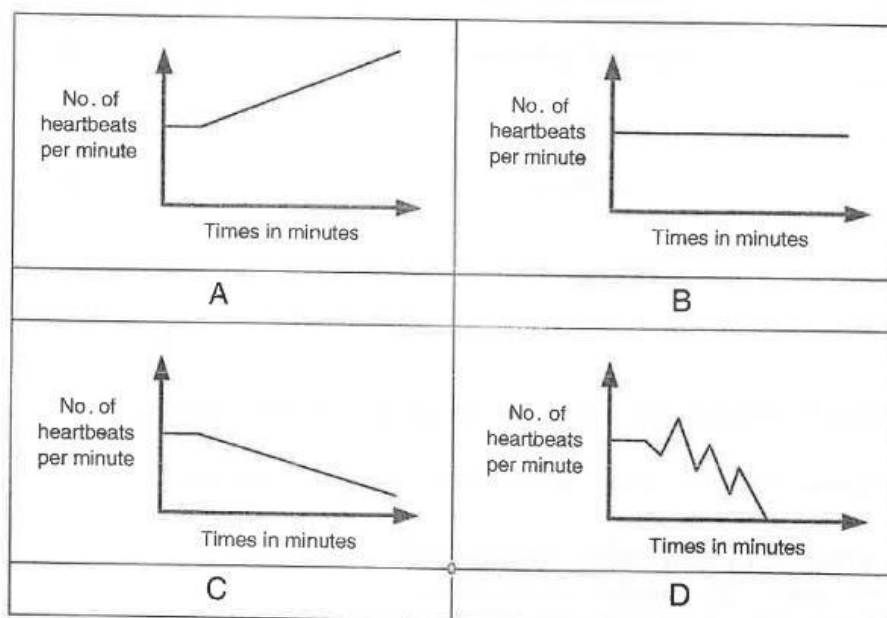


Figure 11



26. As we can see, a prism can be used to split the white light into different colours as shown in Figure 12.

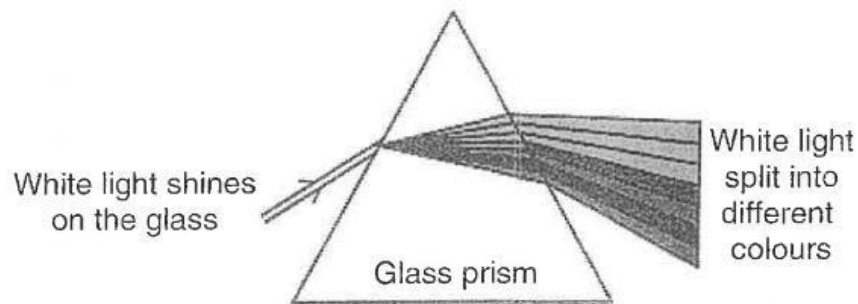


Figure 12

What are the colours?

- A. Red, orange, yellow, green, blue, indigo and violet
- B. Red, orange, yellow, green, black, indigo and violet
- C. Pink, orange, yellow, green, black, indigo and violet
- D. White, orange, yellow, green, blue, grey and violet



27. Study Figure 13 below.

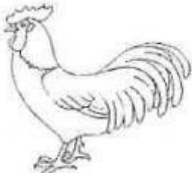
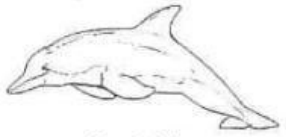
Group A	Group B
 Chicken  Sea Turtle	 Cow  Dolphin

Figure 13

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

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



28. Dani did an experiment on light and shadow. He used a torch, a screen and two objects X and Y, arranged side by side to each other, as shown in Figure 14.

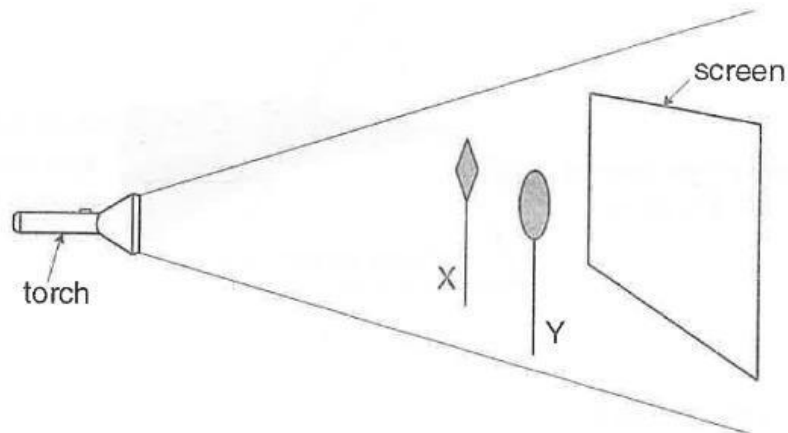
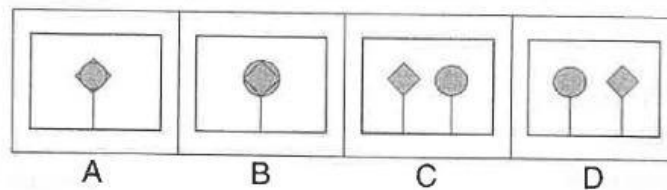


Figure 14

Which of the following **correctly** shows the shadow on the screen?



29. Hasan kept caterpillars of similar sizes in identical glass bottles as shown in Figure 15.

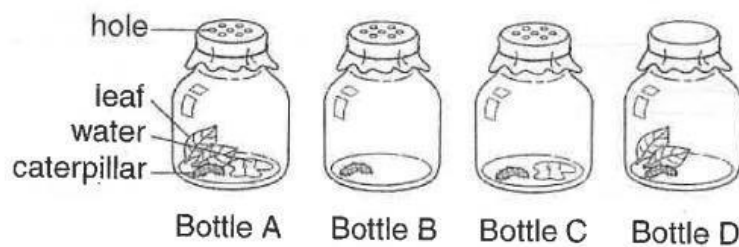


Figure 15

In which bottle would the caterpillar survive the longest?

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



30. Figure 16 below shows the temperature of a container of water over a period of time.

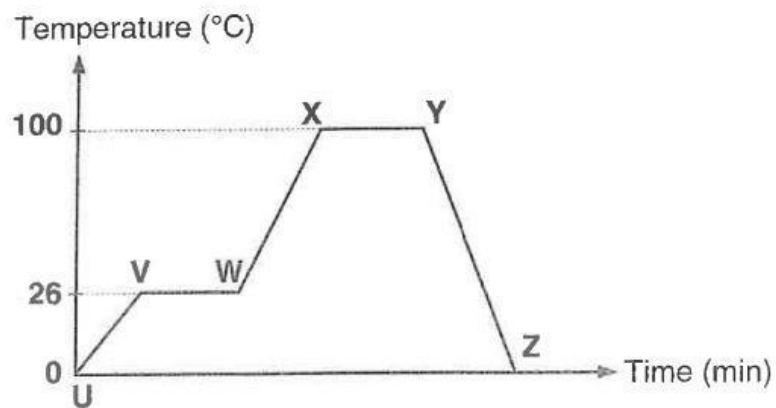


Figure 16

Which statements below i, ii, iii or iv are **correct**?

- i. Ice is melting at UV
- ii. Water is boiling at XY
- iii. The water is left in a freezer at YZ
- iv. Water is a liquid at room temperature at VW.

- A. i and ii only
- B. iii and iv only
- C. ii, iii and iv only
- D. i, ii, iii and iv



TOTAL MARKS	
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END OF PAPER

