Instructions :

1. Each question carries a different score, as indicated at the end of the question.
2. Students must select only the one best answer for each question.

1. Hanson classified the following fruit into two groups, A and B

A	B
lemon	cherry
apple	longan
pear	lychee

What are the suitable headings for both groups A and B respectively? (1.25 marks)

	A	B
1.	Edible	Inedible
2.	Non-poisonous	Poisonous
3.	Sour taste	Sweet taste
4.	more than one seed	One seed

2. Study the classification table below.

Fish	Mammal	Insect
guppy	sea lion	spider
swordtail	pony	dragonfly
tiger barb	rooster	housefly
whale	baboon	scorpion
clown fish	dog	flea

How many animals have been placed in the wrong groups? (1.25 marks)

1. 2
2. 3
3. 4
4. 5

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3. Study the diagram below.



Which of the following best explains why electrical appliances like a hair dryer should not be used in bathrooms? (1.25 marks)

1. Electrical appliances do not work well in bathrooms.
2. Water is a good conductor of and using electrical appliances in a wet environment increases the risk of electric shock.
3. Very little electricity passes through electrical appliances used in bathrooms.
4. The humid air in bathrooms causes electrical appliances to waste a lot of electricity.

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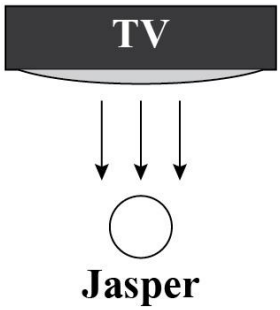
4. The diagram below shows Jasper watching a television programme.



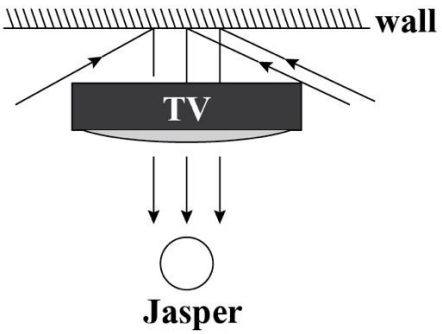
Which of the following explain why Jasper is able to watch the television programme?

(1.25 marks)

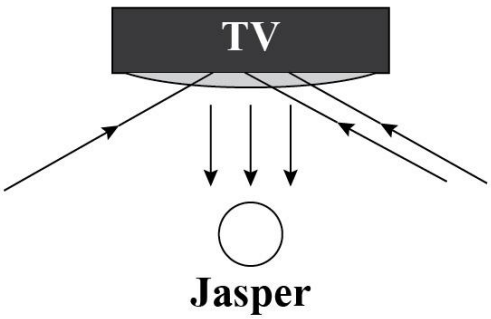
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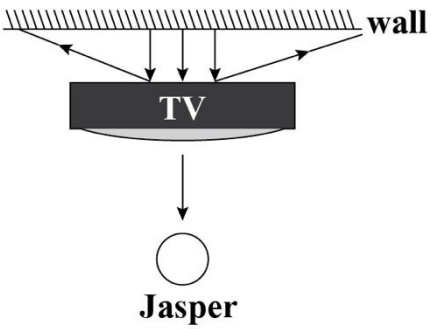
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3.

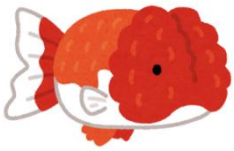
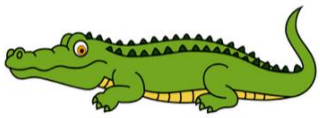


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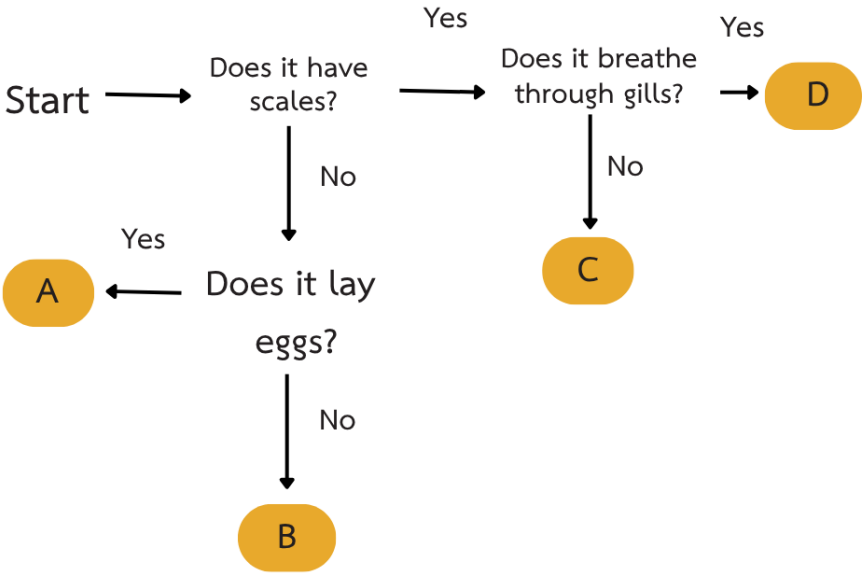


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5. Study the diagram shown below.

			
Giraffe	**Ostrich**	**Goldfish**	**Crocodile**

Match the above four animals to the letters in the following flow chart.

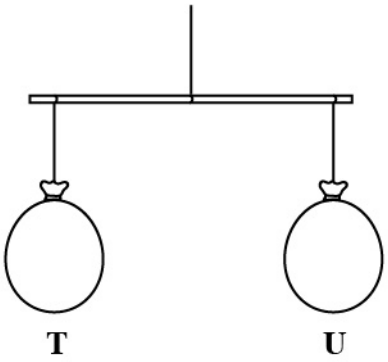


Which statement is correct? (1.25 marks)

	A	B	C	D
1.	Giraffe	Ostrich	Goldfish	Crocodile
2.	Ostrich	Giraffe	Crocodile	Goldfish
3.	Giraffe	Goldfish	Ostrich	Crocodile
4.	Goldfish	Giraffe	Crocodile	Ostrich

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6. Two identical balloons were hung from a wood rod as shown in the diagram below.



Each balloon contained 50 cm^3 of air. What would happen if balloon T was pricked with a needle? (1.25 marks)

1. The wood rod would remain balanced.
2. The wood rod would tilt towards balloon T.
3. The wood rod would tilt towards balloon U.
4. The wood rod would tilt towards balloon T, then toward balloon U.

7. Janet wants to buy a cooking pot for her mother. The pot she is looking for must satisfy the following criteria.

- It is a good conductor of heat.
- It does not rust easily.
- The handles are good insulators of heat.
- While cooking, she is able to see the content the pot through the lid without lifting it.

The various parts of the pot are most likely to be made of _____. (1.25 marks)

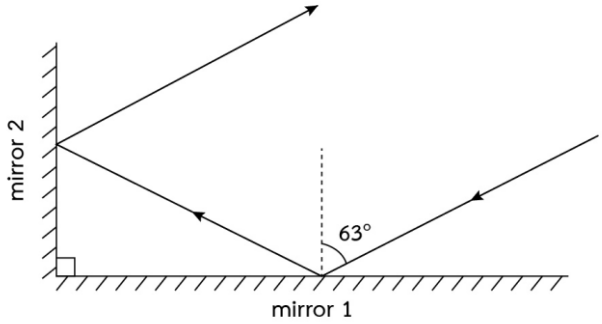
1. rubber, iron and wood
2. aluminium, glass and copper
3. clay, ceramics and rubber
4. stainless steel, heat-resistant glass and plastic

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8. Which phenomenon is caused by the refraction of Sound waves? (1.25 marks)

1. We see lightning that occurs at a close range but do not hear the thunder that follows.
2. Playing music in a room, but people in the next room can hear the music too.
3. Hearing one's own voice after shouting out onto a cliff.
4. All students in a school hear the national anthem from a speaker installed.

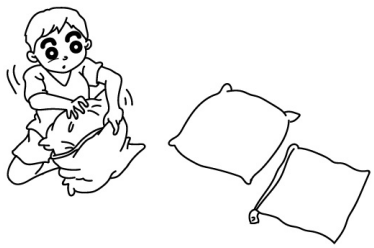
9. A light ray experiences double reflection, first on mirror 1 followed by mirror 2.



What is its final angle of reflection, after being reflected at mirror 2? (1.25 marks)

1. 90°
2. 32°
3. 63°
4. 27°

10. Study the diagram below.

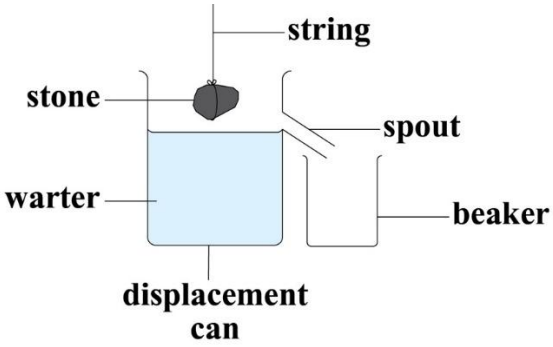


Most cotton sofa cushions are fluffy and bigger than their covers. However, a sofa cushion can fit into a smaller cover because. (1.25 marks)

1. a cotton cover has a bigger mass than a sofa cushion.
2. cushion covers are made of elastic fabric like nylon a silk.
3. cotton does not have a definite shape and volume so it compressed.
4. air pockets within a cotton cushion can be compressed to occupy less space.

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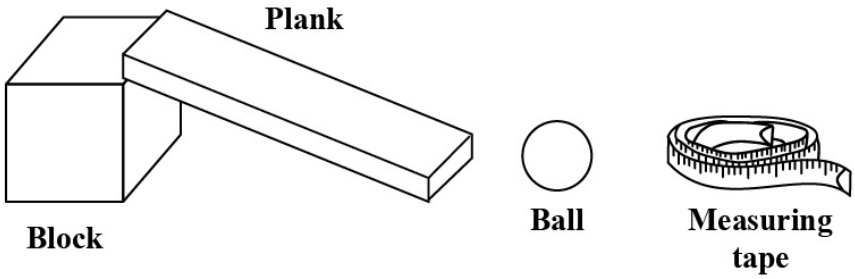
11. Study the set-up shown below. When the stone is lowered into the displacement can, water flows out of the spout and into the beaker.



Which of the following : can be measured from this experiment? (1.25 marks)

1. Area of the stone
2. Shape of the stone
3. Length of the stone
4. Volume of the stone

12. Steven was given a block, a plank, a ball and a measuring tape.



Which one of the following ideas could Steven prove using only the materials given? (1.25 marks)

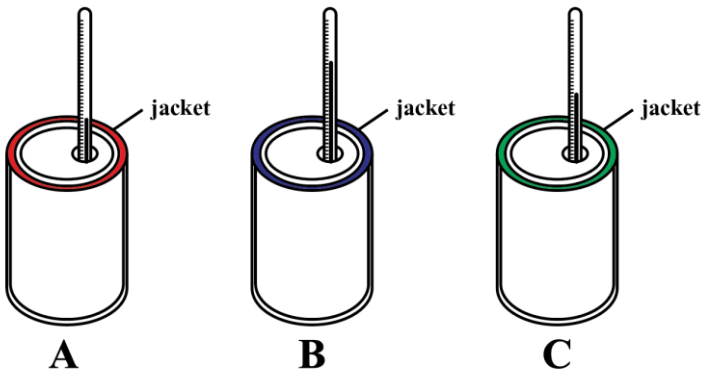
1. The ball with a bigger mass will roll slower down a slope.
2. The ball with a smoother surface will roll faster down a slope.
3. The ball which rolls down from a higher position will travel a long distance.
4. The ball which rolls down a slope with a smoother surface will travel longer distance.

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13. A student observed sedimentary rock layers tilted upwards on one side. The bottommost rock layer appeared coarser than the layers above it. What process do these rock layers most likely indicate? (1.25 marks)

1. Accumulation of volcanic lava flows that coalesce and deposit over a long period.
2. Deposition of sediments in an area with strong water currents, such as a river.
3. Metamorphism from igneous rock through heat and pressure.
4. Intrusion of magma into older rock layers, causing an upward thrust at an angle.

14. Sonia wanted to find out which material is the best insulator of heat. She made three can jackets with different materials. Three cans of drink were taken from a fridge and placed into the can jackets. A thermometer was inserted into each can. The diagrams below show what Sonia had done.

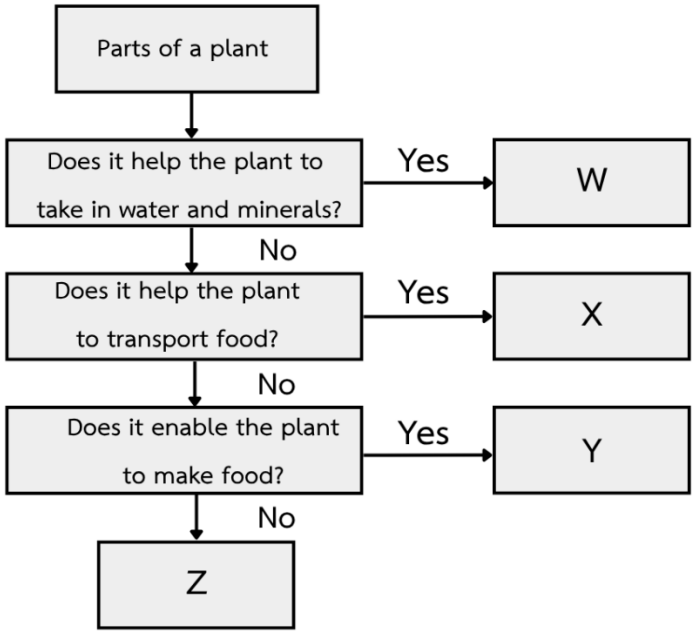


What should Sonia observe or measure to know which of the materials is the best insulator of heat? (1.25 marks)

1. The thickness of the jackets
2. The temperature of the drinks
3. The temperature of the jackets
4. The amount of drinks in the cans

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15. The flow chart below shows the different functions of the different parts of a plant.

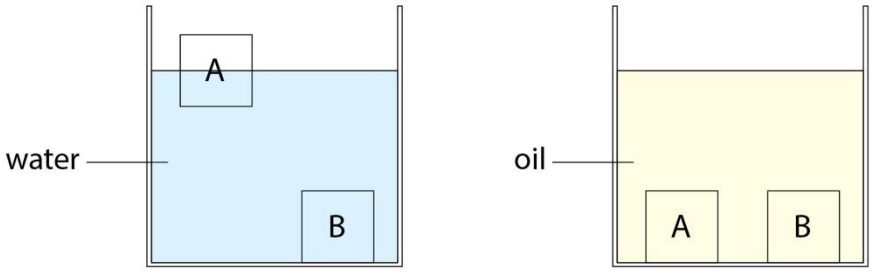


Which of the following correctly represents W, X. Y and Z? (2.5 marks)

	W	X	Y	Z
1.	Leaves	Food-carrying tubes	Water-carrying tubes	Roots
2.	Water-carrying tubes	Food-carrying tubes	Leaves	Roots
3.	Roots	Food-carrying tubes	Water-carrying tubes	Leaves
4.	Roots	Food-carrying tubes	Leaves	Water-carrying tubes

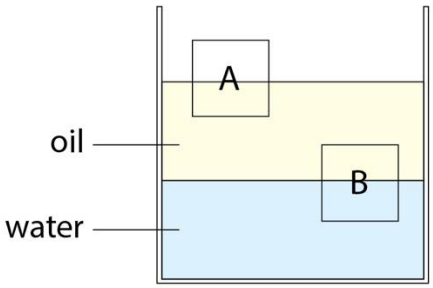
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16. The picture below show objects A and B when they were placed in containers of water and oil respectively.

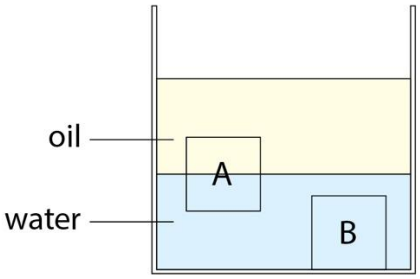


Oil floats on water. Which one of the following shows what happens when objects A and B were placed in a container containing both oil and water? (2.5 marks)

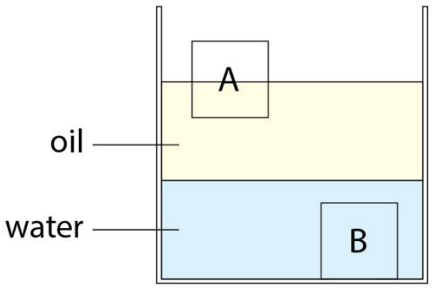
1.



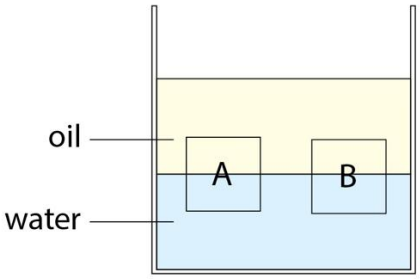
2.



3.



4.



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17. During a particular summer, a region experiences an extended period where temperatures consistently exceed 35°C, accompanied by clear skies and minimal rainfall. Agricultural reports indicate significant crop stress, and reservoirs are at critically low levels. This prolonged weather condition is most accurately described as a direct consequence of a persistent high pressure system. Why would a high-pressure system lead to these specific weather conditions? (2.5 marks)

1. High pressure systems are always formed over oceans, bringing humid air inland that causes high temperatures and drought.

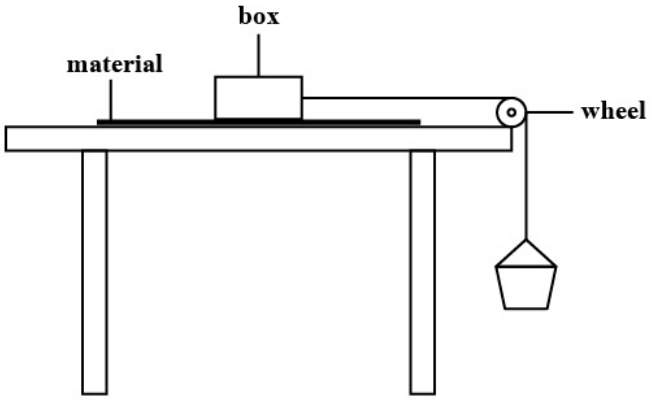
2. High pressure systems are characterized by descending air, which warms and suppresses cloud formation and precipitation, leading to clear skies and prolonged dry spells.

3. High pressure systems block the formation of strong winds, leading to stagnant air and heat accumulation.

4. High pressure systems draw in moisture from surrounding areas, causing heavy rainfall.

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18. Philip wanted to compare the frictional force produced when a box was moving over different materials. He placed a piece of material on a table and then placed the box on top of the material. A string with a plastic cup tied to one end was attached onto the box as shown in the diagram. Marbles were dropped gently into the plastic cup until the box began to slide along the material. The wheel at the end of the table helped to reduce friction so that the cup could move down smoothly.

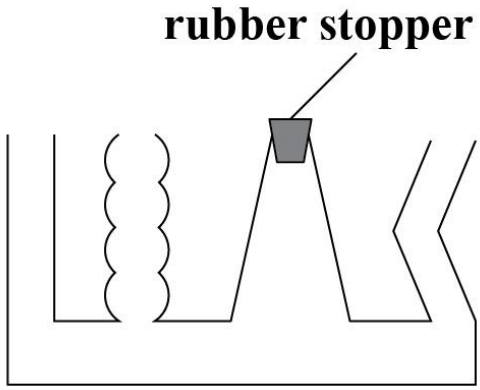


The frictional force produced when the box was moving over the materials in this experiment could be indirectly measured by the _____. (2.5 marks)

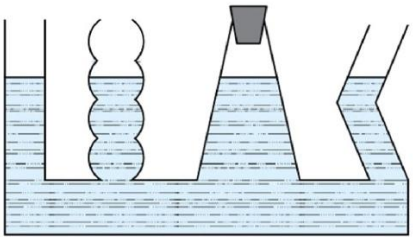
1. weight of the box
2. weight of each marble
3. number of marbles needed to cause the box to slide
4. size of the surface of the box resting on the material

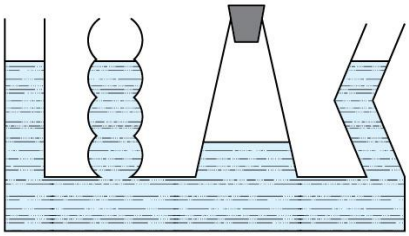
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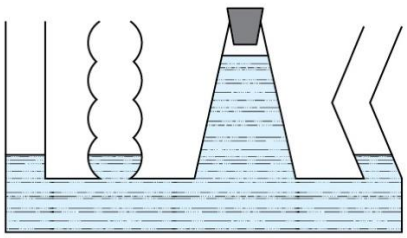
19. The diagram below shows a set of communicating vessels.

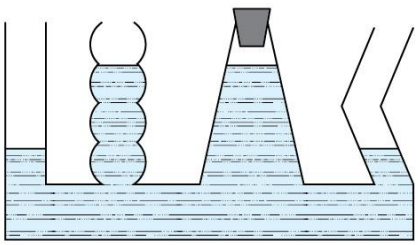


When some water is poured into the vessels, which of the following shows the water levels in the communicating vessels correctly? (2.5 marks)

1. 

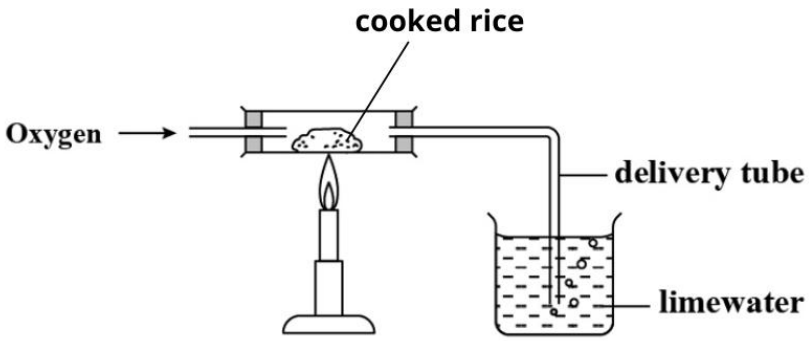
2. 

3. 

4. 

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20. Ana put some cooked rice into a glass container fitted with a delivery tube as shown in the diagram below. She then pumped oxygen into the set-up and heated up the cooked rice to speed up the decomposition process. After some time, the beaker of limewater turned milky.



Which of the following conclusions could Ana make form the experiment? (2.5 marks)

1. Heating cooked rice mixed with oxygen causes limewater to become milky.
2. Decomposition produces more oxygen which can cause limewater to become milky.
3. Heating cooked rice produces carbon dioxide which cause limewater to become milky.
4. Decomposition produces more air bubbles which can cause limewater to become milky.

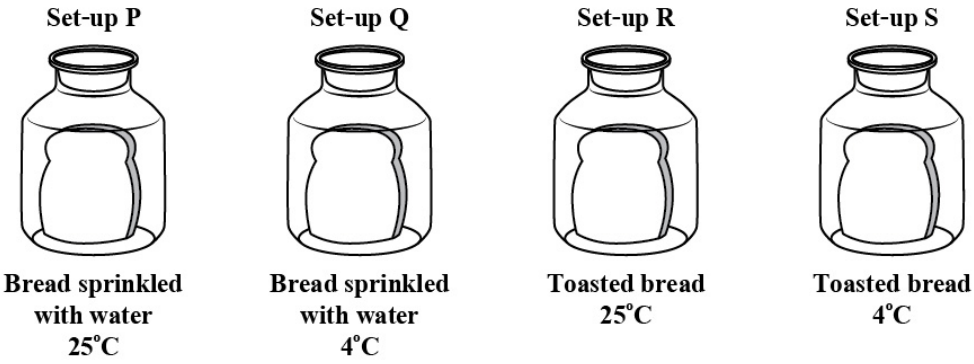
21. The Moon exerts one-sixth of the gravity exerted by the Earth. An object of mass 2 kg is taken to the Moon. On the Moon it will _____. (2.5 marks)

A. have the same mass
B. have the same weight
C. weigh less

1. A only
2. B only
3. A and B only
4. A and C only

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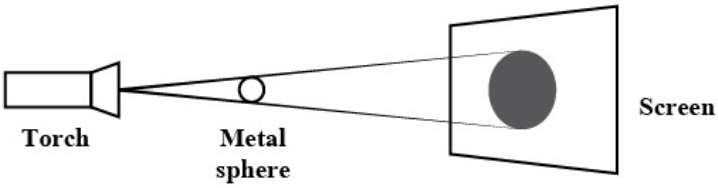
22. A group of students wanted to grow some bread mould for a Science fair.
They prepared four set-ups with different conditions as shown diagram below.



After three days, in which set-up would the group of students find the most number of patches of bread mould? (2.5 marks)

1. Set – up P
2. Set – up Q
3. Set – up R
4. Set – up S

23. James placed a metal sphere between a torch and a screen as shown in the diagram below.



What could James do to make the shadow on the screen smaller? (2.5 marks)

A. He could move the sphere nearer to the screen.
B. He could move the screen nearer to the torch and sphere.
C. He could move the torch nearer to the sphere and the screen.

1. A only
2. C only
3. A and B only
4. A, B and C

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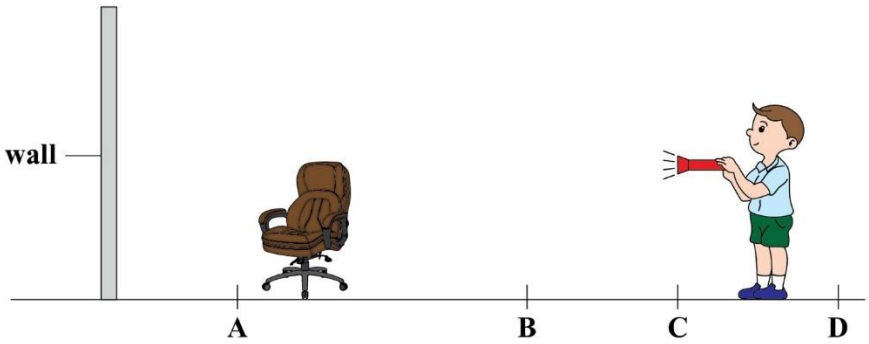
24. Jasmine placed a plant bearing a white-coloured flower into a beaker of red-coloured water. After a week, the white-coloured flower turned red. She allowed the plant to reproduce with another plant bearing a white-coloured flower to produce plant A.
What colour(s) would the flower of plant A be? (2.5 marks)

1. Red
2. Pink
3. White
4. Red and white

25. Which statement is correct regarding the day and night phenomenon? (2.5 marks)

1. It is a phenomenon caused by the earth's orbit around the sun.
2. During the day, the sun can be seen. And the moon may be seen sometimes on certain days.
3. It is a phenomenon caused by the moon orbiting the earth.
4. At night the moon can be seen every day.

26. Fah carried a torch and stood a distance away from a chair. He shone the light on the chair and a shadow was formed on the wall.

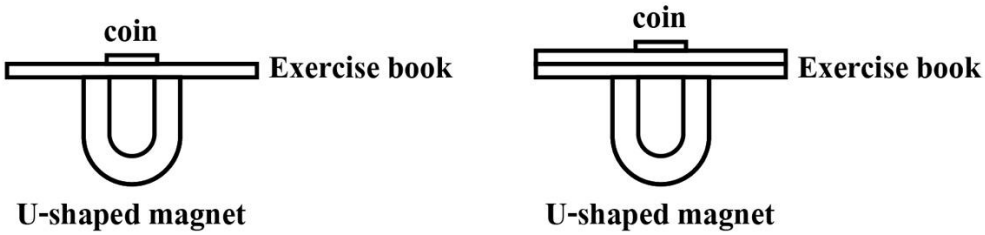


Which of the above positions, A, B, C, or D, should Fah stand to form the big shadow on the wall? (2.5 marks)

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

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27. Mike placed a U-shaped magnet under an exercise book and a coin on the exercise book. When he moved the magnet, the coin on the exercise book moved together. However, when he repeated the experiment by using two similar exercise books, the coin did not move together with the magnet.

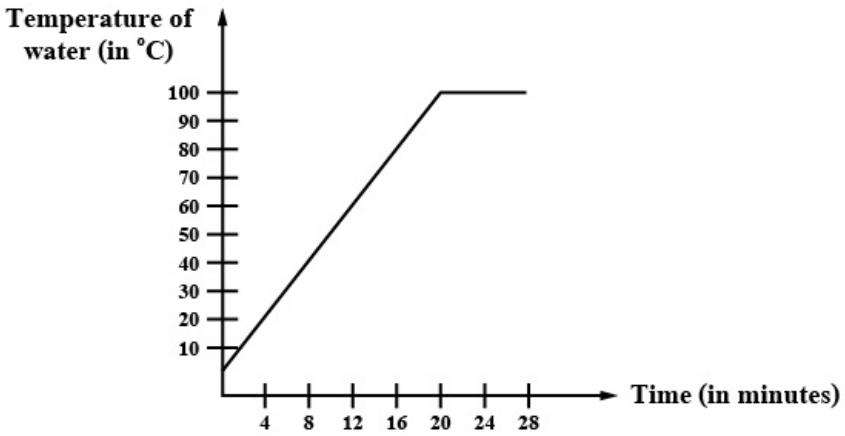


Which of the following inferences or conclusions is not true? (5 marks)

1. The coin is a magnetic object.
2. Magnetic attraction can pass through paper.
3. The exercise books are made of a magnetic material.
4. The magnetic attraction exerted by the U-shaped magnet is not strong enough to pass through two exercise books.

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28. A pot of cold water was heated until it reached 100 °C. The changes in the temperature of the water are shown in the graph below.



Consider the following information.

A. The water took 24 minutes to reach its boiling point.

B. The temperature of the water at the 21st minute was 100 °C.

C. The temperature of the water remained constant when it reached 100 °C.

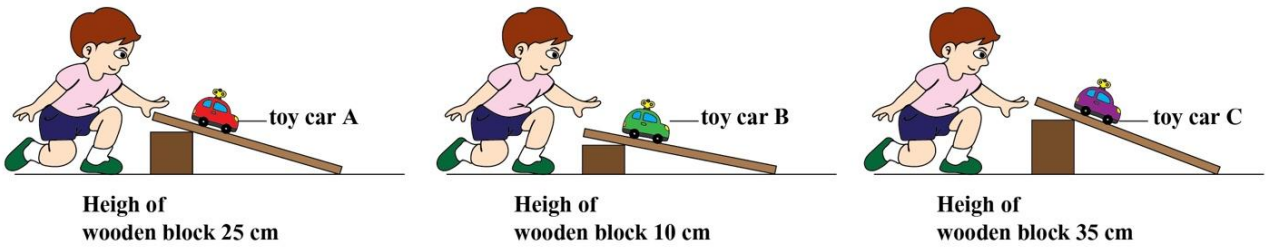
D. The temperature of the water increased by 20 °C between the 10th and the 14th minute.

Based on the graph above, which statements are correct? (5 marks)

1. A and B
2. C and D
3. A, C and D
4. B, C and D

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29. Jovan carried out on experiment by using three similar toy cars and ramp of the same length and surface. He released his toy car from wooden blocks of different heights as shown below.



Which of the following conclusions can be made? (5 marks)

	Toy car which travelled the shortest distance	Toy car which travelled the longest distance
1.	A	C
2.	B	A
3.	B	C
4.	C	B

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30. Fahsai did some small experiments to explore how light behaves and recorded what she saw:

Situation 1 : Fahsai stood holding thick book in the middle of a sunny field. She noticed a clear rectangular shadow of the book appearing on the grass behind it.

Situation 2 : Fahsai tried holding a piece of thick cardboard in front of her face, and she could not see anything behind it at all. Then, she tried holding a clear plastic sheet in front of her face instead. She could see everything behind it clearly, as if nothing was blocking her view.

Situation 3 : Fahsai used a flashlight to shine light directly onto a small mirror placed on a table. She saw that the light from the flashlight hit the mirror's surface and then bounced back, making a small bright spot appear on the opposite wall.

Based on the passage and Fahsai's observations, which statement is the most accurate explanation? (5 marks)

1. In Situation 1, the book's shadow proves that light travels in curved paths when it meets an object.

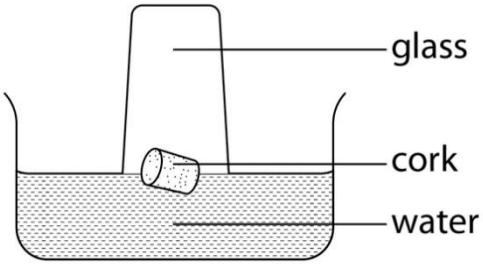
2. In Situation 1, the sharp shadow of the book, and in Situation 2, not being able to see through the cardboard, both confirm that light travels in straight lines and cannot pass through opaque objects.

3. In Situation 2, Fahsai not being able to see through the cardboard means the cardboard is a translucent object.

4. In Situation 3, the flashlight's light bouncing back from the mirror is an example of light absorption.

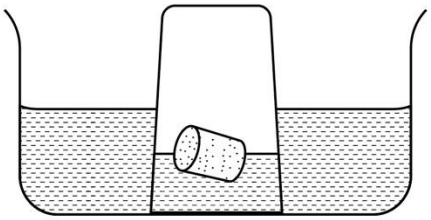
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31. Mini filled a basin with water and let a wooden cork float on it. She inverted an empty glass directly over the floating cork as shown in the diagram below.

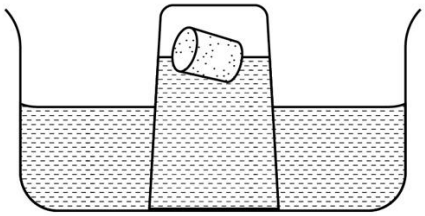


Which of the following shows the results of her experiment? (1.25 marks)

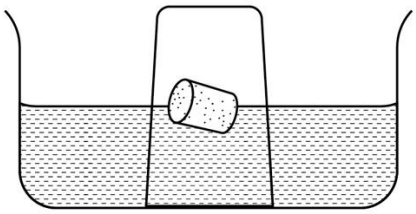
1.



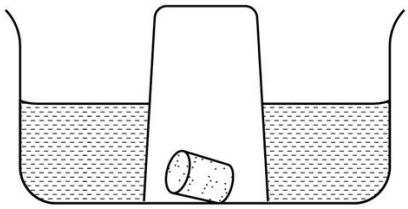
2.



3.

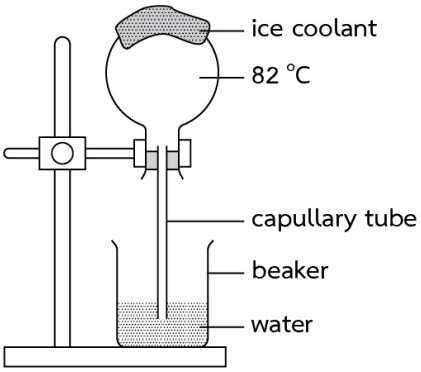


4.



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32. An experiment has been set up as shown below. An ice coolant has been placed on top of the flask. After ten minutes, water from the beaker rises up the capillary tube. What mode(s) of heat transfer is/are involved in the experiment? (1.25 marks)



1. Conduction **2. Convection** **3. Radiation**

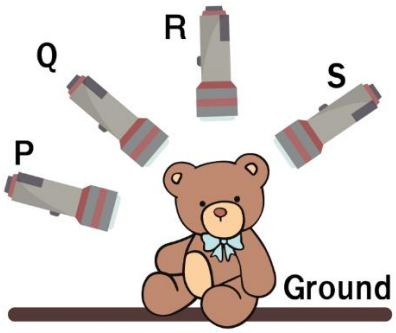
1. 1 only
2. 1 and 2 only
3. 2 and 3 only
4. All of the above

33. Metal detectors operate on the principle of electromagnetic induction. When a metal detector is swept over a metallic object, an audible signal is generated. What is the underlying scientific reason for this detection? (2.5 marks)

1. The electromagnetic field of the detector induces an opposing electromagnetic field in the metal, which is then detected by the receiver coil.
2. Metal causes a change in the electrical resistance of the detector's circuit.
3. Metal absorbs electromagnetic waves emitted by the detector, causing a change in wave frequency.
4. Metal emits high-frequency sound waves when exposed to an electromagnetic field.

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34. The diagram below shows four unlit torches P, Q , R and S pointing at a teddy bear.

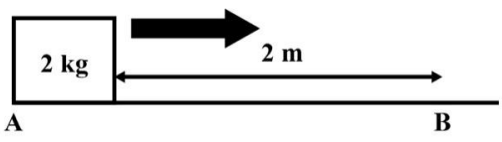


The torches were switched on one at a time and the length of the shadow cast by the teddy bear using each torch was recorded. Which of the following results is correct?
(2.5 marks)

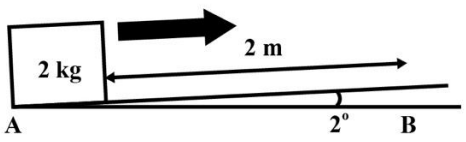
	P	Q	R	S
1.	7	12	19	12
2.	12	7	12	19
3.	12	19	12	7
4.	9	12	7	12

35. In which of the following diagrams is the greatest force needed to move the box from A to B? (2.5 marks)

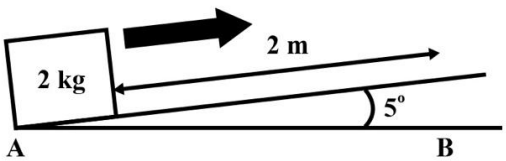
1.



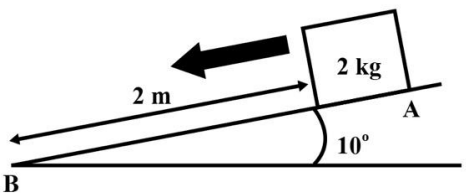
2.



3.

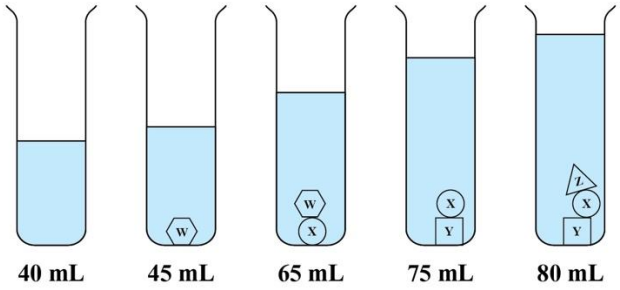


4.



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36. Allen is trying to find the volume of three objects X, Y and Z using the set-ups shown below.



What are the volumes of objects X, Y and Z? (2.5 marks)

	X (cm^3)	Y (cm^3)	Z (cm^3)
1.	15	5	20
2.	20	15	5
3.	5	20	15
4.	20	5	15

37. Ohm wants to investigate the effect of a type of fertiliser on balsom plants. He selected four similar pots of young balsam plants for his experiment, and reduced the amount of water and the amount of fertiliser given to each plant in the table below.

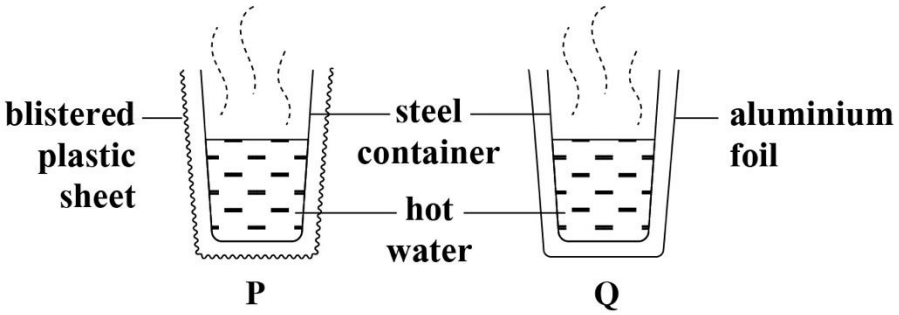
Pot	Amount of water per day (ml)	Amount of fertiliser dissolved in water
A	25	1 g per day
B	25	2 g every 4 days
C	10	0 g
D	25	0 g

For a fair result, which pots of plants could he compare 20 days later? (5 marks)

1. Pot A and pot C only
2. Pot B and pot C only
3. Pot B and pot D only
4. Pot A, pot B and pot D only

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38. 100 mL of water at 90°C was poured into each of two similar steel containers. Each container was wrapped with a different material a blistered plastic sheet and an aluminium foil. The containers were then left on the table to cool for one hour.



The initial and final temperatures were measured and recorded in a table.

Container	Initial temperature (°C)	Final temperature (°C)
P	90	80
Q	90	49

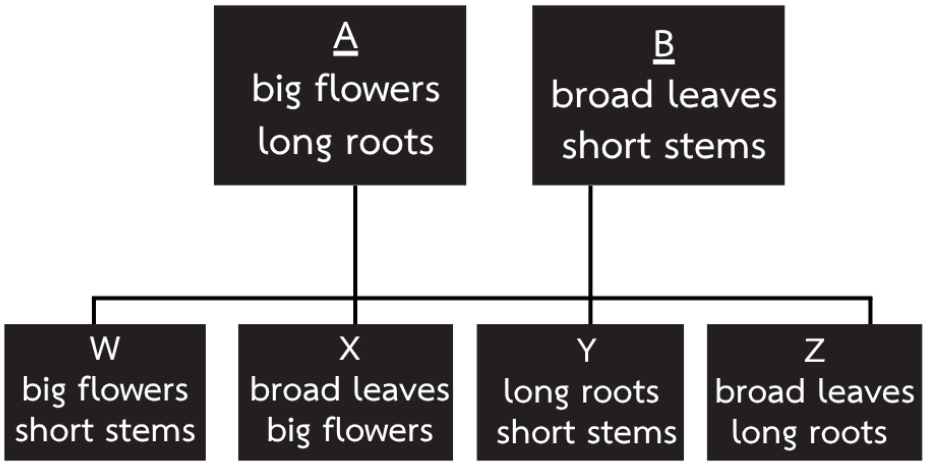
The water in container P cooled down more slowly because _____ . (5 marks)

A. there was no wind
B. the water was too hot
C. plastic is a poor conductor of heat
D. the air in the blistered plastic sheet is a good insulator of heat

1. A only
2. B and D only
3. C and D only
4. A, B and C only

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39. Study the diagram below. It shows traits of parent plants, A and B, and their offspring, W, X, Y and Z.



When W, X, Y and Z become adult plants, two of them are used to breed a new young plant, P. P has long roots, short stems and big flowers.

Which two adult plants are the ones that were most likely used to reproduce P? (5 marks)

1. W and Y
2. W and Z
3. X and Y
4. Y and Z

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40. Ginny placed a mealworm in a box at position A (diagram 1) and left the box in a dark room. She noticed that the mealworm remained at the same position after a few minutes. She then shone a torch at the mealworm and noticed that it started moving to position C (diagram 2).

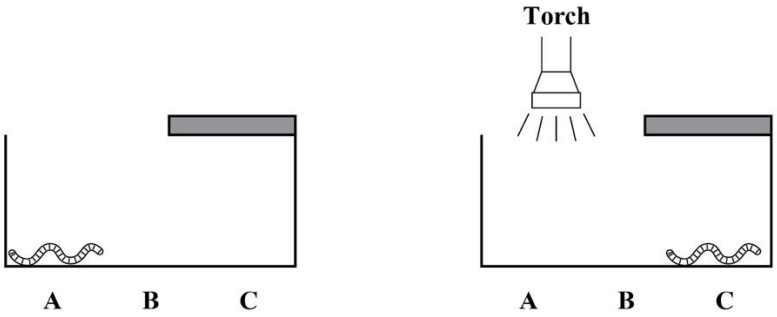


Diagram 1

Diagram 2

The experiment above shows that living things _____. (5 marks)

A. reproduce
B. respond to changes
C. can move by themselves
D. need air, food and water to survive

1. C only
2. A and B only
3. B and C only
4. A, C and D only

---------- End of Questions ----------

Please check your answers before submitting the answer sheet.

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คำตอบวิชาวิทยาศาสตร์ ชั้นประถมศึกษาปีที่ 5

ข้อ	คำตอบ	ข้อ	คำตอบ
1	4	21	4
2	3	22	1
3	2	23	3
4	1	24	3
5	2	25	2
6	3	26	2
7	4	27	3
8	1	28	4
9	4	29	3
10	4	30	2
11	4	31	4
12	3	32	2
13	2	33	1
14	2	34	4
15	2	35	3
16	2	36	2
17	2	37	4
18	3	38	3
19	2	39	1
20	3	40	3

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