

NANYANG PRIMARY SCHOOL

PRIMARY 6 SCIENCE

**CONTINUAL ASSESSMENT 1
2012**

BOOKLET A

Date : 28 February 2012

Duration : 1 h 45 min

Name : _____ ()

Class: Primary 6 ()

Parent's signature:

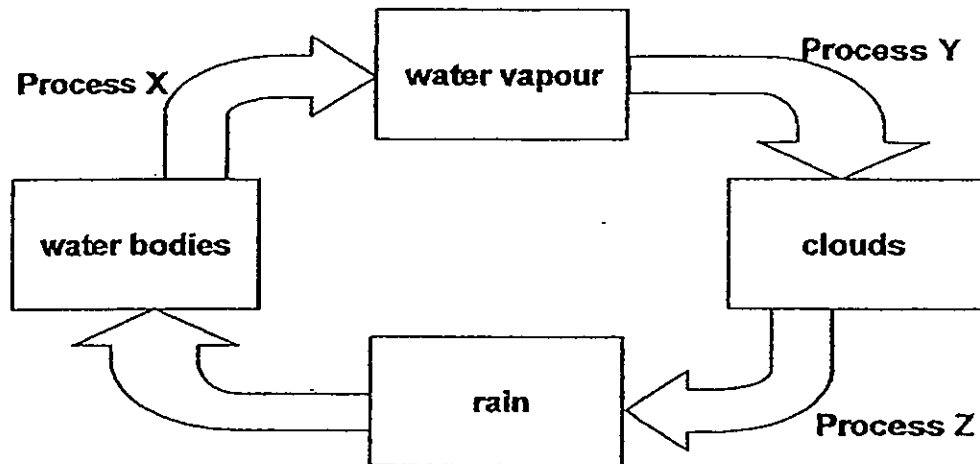
**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.**

Booklet A consists of 19 printed pages including this cover page.

Section A (15 x 2 marks = 30 marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.

1. The diagram below represents the water cycle.



Based on the diagram, which of the statements are incorrect?

- A Process X takes place only during the daytime.
- B Heat is lost by the water vapour during process Y.
- C There is a change in-state in water during processes X, Y and Z.

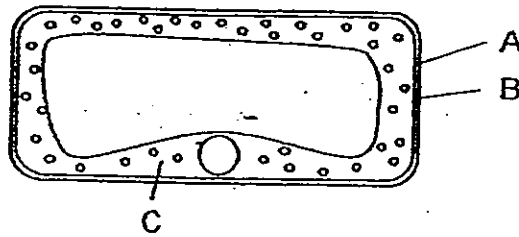
- (1) A and B only
- (2) A, and C only
- (3) B and C only
- (4) A, B and C

2. Nicole examined the cells from the root and stem of a cactus plant. Which of the following would she find present in both kinds of cells?

- A cell wall
- B nucleus
- C chloroplast
- D cell membrane

- (1) A, B and C only
- (2) A, B and D only
- (3) B, C and D only
- (4) A, B, C and D

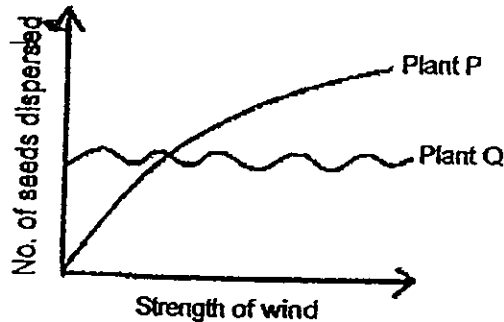
3. The diagram below shows a plant cell.



Which part(s) keeps/keep it firm and maintains/maintain its shape?

- (1) A only
- (2) B only
- (3) A and B only
- (4) B and C only

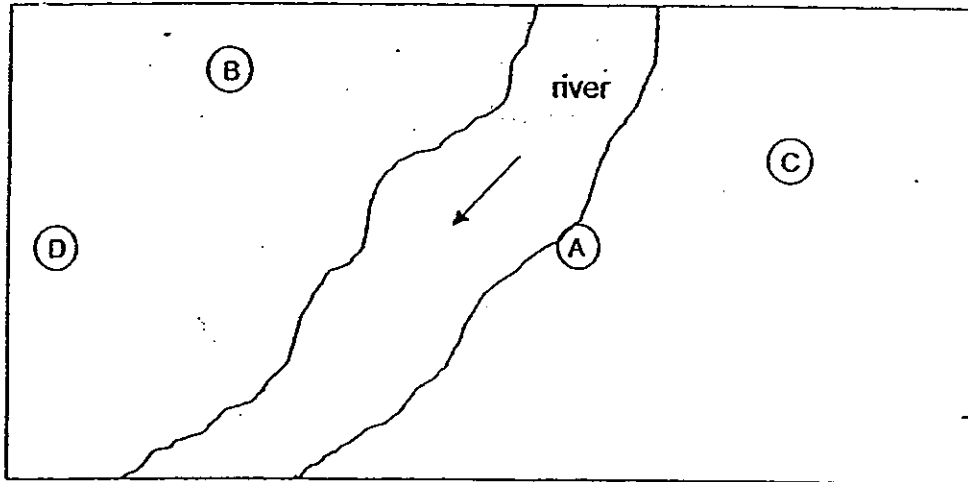
4. The graph below shows the relationship between the number of seeds of plant P and Q dispersed and the strength of the wind.



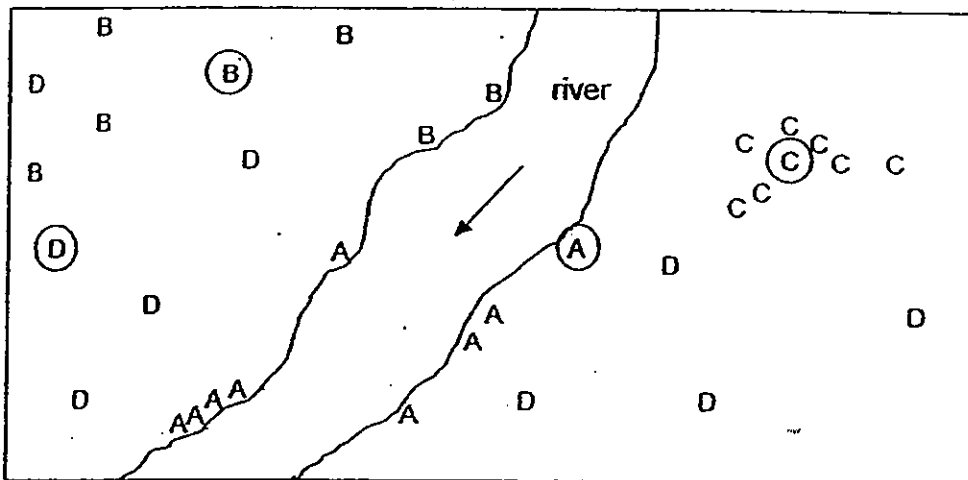
Which one of the following statements can be concluded based on the graph above?

- (1) The seeds of plant P are dispersed further than the seeds of plant Q.
- (2) The stronger the wind, the faster the seeds of plant P are dispersed.
- (3) The dispersal of the seeds of plant Q does not depend on the strength of the wind.
- (4) The seeds of plant Q are able to glide in the air for a longer time than the seeds of plant P.



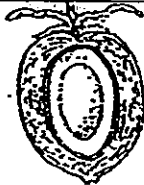

5. Four different types of plants, A, B, C and D were planted as indicated in the diagram below. The arrow indicates the direction of flow of the river.



A few years later, the same area was studied and the locations of the 4 different plants were identified and indicated in the diagram below.

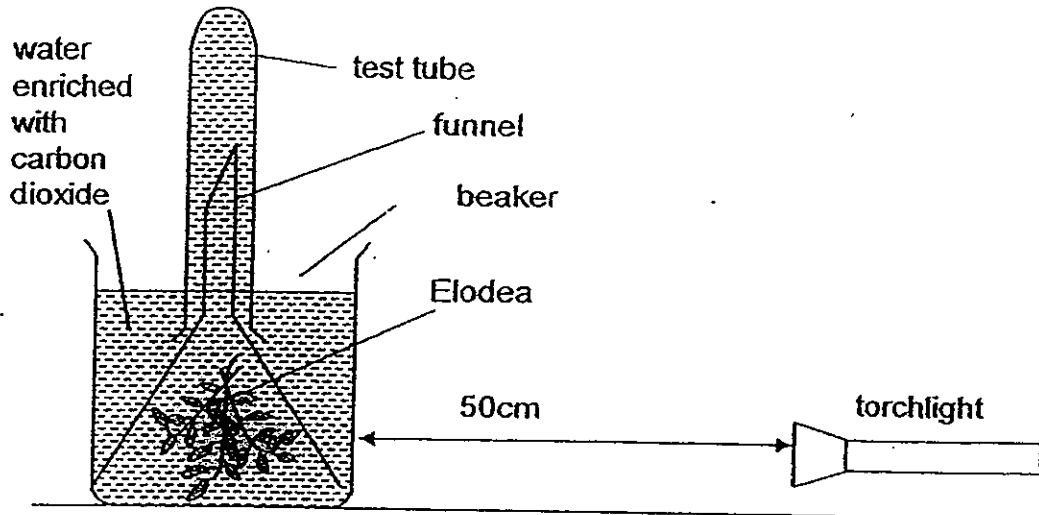


According to the dispersal pattern shown above, which of the following options correctly identifies plants A, B, C and D?

	 saga	 angsana	 coconut	 cocklebur
(1)	B	C	A	D
(2)	C	B	D	A
(3)	C	D	A	B
(4)	D	A	B	C

Study the information given below and answer questions 6 and 7.

Rahida set up an experiment in a dark room with some water and some Elodea (a totally submerged plant) in a beaker as shown in the diagram. Water enriched with carbon dioxide was used in this experiment. A light source was placed 50cm away from the beaker. After a short while, she counted the number of bubbles produced by the elodea in one minute.



Then she repeated the experiment by decreasing the distance between the light source and the beaker and counted the number of bubbles produced again. Rahida recorded the results in the table shown below.

Distance of light source from the beaker (cm)	Number of bubbles produced in 1 minute
50	3
40	8
30	13
20	17

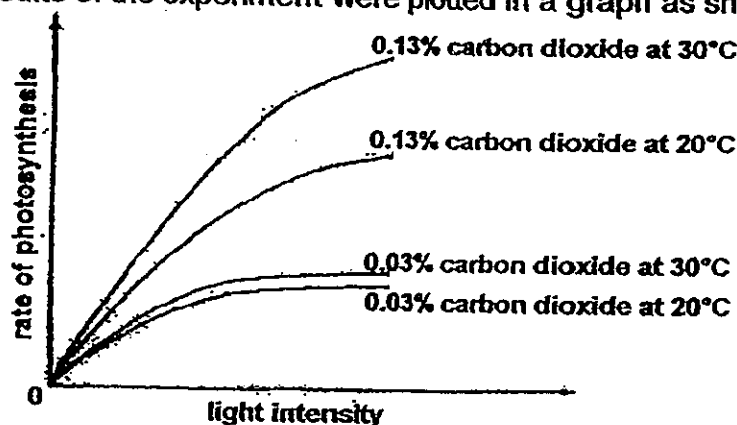
6. Which one of the following conclusion can Rahida draw from the results above?
- (1) The rate of photosynthesis is higher in blue light than in green light.
 - (2) The higher the intensity of light, the higher the rate of photosynthesis.
 - (3) The light source must be 20cm away from the Elodea plant so that it can photosynthesize at the highest rate.
 - (4) The nearer the light source to the Elodea plant, the more the plant will respire and photosynthesize to produce more bubbles of oxygen and carbon dioxide.

7. Which of the following variables should be kept the same for the experiment to be a fair test?

- A Type of light source
- B Amount of Elodea plant
- C Distance between light source and beaker

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

8. An experiment was carried out to show how the light intensity, amount of carbon dioxide and temperature affects the rate of photosynthesis. The results of the experiment were plotted in a graph as shown below.



Based on the graph, which one of the following statements about the effects of these external factors on the rate of photosynthesis is incorrect?

- (1) Rate of photosynthesis increases with increasing light intensity.
- (2) Temperature will be a factor affecting the rate of photosynthesis in a carbon dioxide enriched environment.
- (3) At the same temperature, the rate of photosynthesis is greatly affected by the amount of carbon dioxide given.
- (4) The rate of photosynthesis is more affected by the increase in temperature in the natural environment than a carbon dioxide enriched environment.

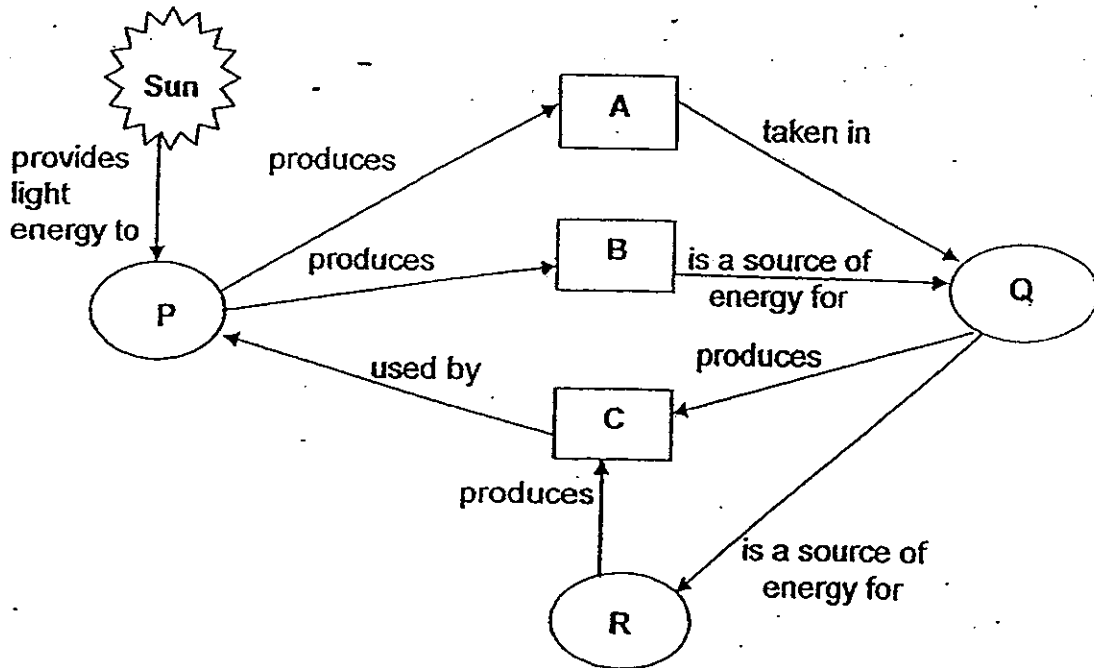
9. Which of the following statements are correct?

- A Only plants with green leaves can photosynthesize
- B Gaseous exchange takes place through the stomata.
- C Oxygen is not needed in the process of photosynthesis
- D Water that the leaves need for photosynthesis is taken in through the stomata.

- (1) A and C only
- (2) A and D only
- (3) B and C only
- (4) C and D only

10. Study the concept map below.

Organisms P, Q and R are found in the garden.



What do the letters A, B and C represent in the concept map?

	A	B	C
(1)	oxygen	food	carbon dioxide
(2)	energy	carbon dioxide	water
(3)	food	oxygen	carbon dioxide
(4)	oxygen	water	food

11. Which of the following statements about food made during photosynthesis are correct?

- A Food made in the leaves is transported to all parts of the plants.
- B Food made by plants can be stored as starch, sugar or oil in the plant.
- C Excess food that plants made can be stored in different parts of the plant.
- D Plants make use of the food that they made for respiration to release energy.

- (1) A and D only
- (2) B and C only
- (3) A, B and C only
- (4) A, B, C and D

12. Which of the following statements are incorrect ?

- A Roots are all inedible.
- B Roots take in only water from the soil.
- C Roots help to hold a plant firmly to the ground.
- D Root hairs increase the surface area of roots to help in absorption of water from the soil

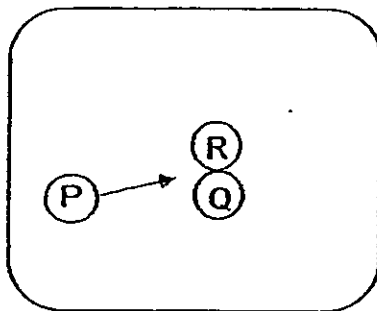
(1) A and B only

(2) B and C only

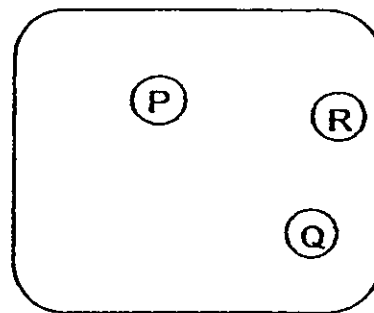
(3) A, B and D only

(4) B, C and D only

13. The diagrams below show the original and final position of 3 identical balls, P, Q and R. Keith pushed Ball P in the direction as indicated by the arrow. After it had been pushed, the final position of the 3 balls is as shown in the diagram below.



Original position



Final position

Keith observed the results and made the following statements:

- A Balls P, Q and R stopped moving because of gravity.
- B Ball P moved forward a certain distance and hit ball Q and R.
- C Ball P moved because the push force was greater than the frictional force.

Which of the statements that he made are correct?

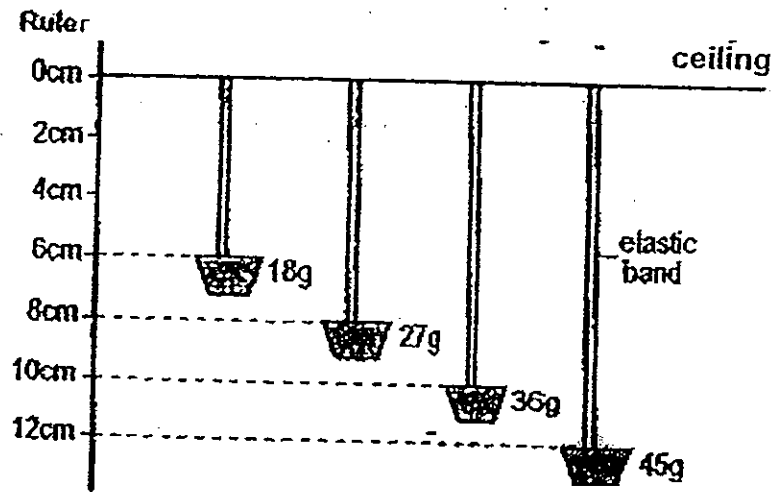
(1) A only

(2) A and C only

(3) B and C only

(4) A, B and C only

14. An experiment was set up to find out how the mass of the weights affects the extension of an elastic band.

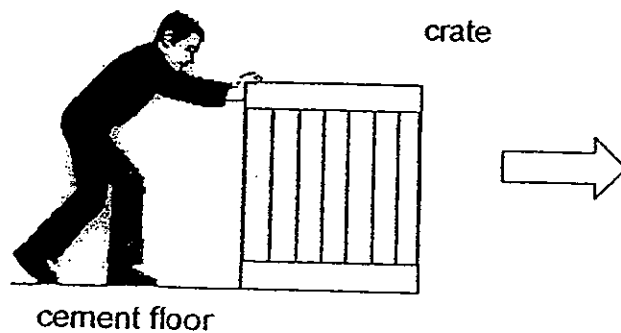


Which of the following statements are correct about this set-up?

- A The elastic band is exerting an upward force.
- B The weights exert a downward force on the elastic band.
- C When a mass of 36g is hung on the elastic band, the total extension of the elastic band is 10cm.

- (1) A and B only
- (2) B and C only
- (3) A and C only
- (4) A, B, and C

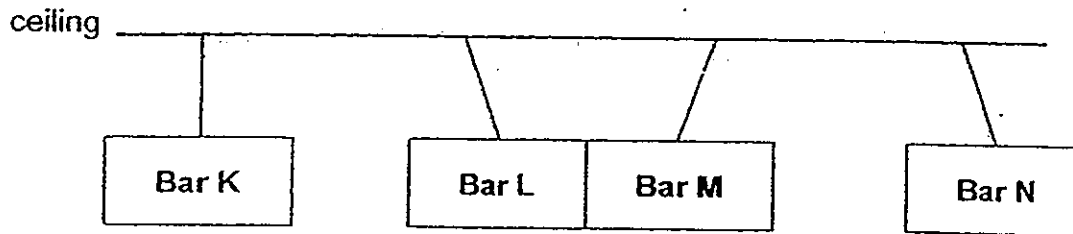
15. In the diagram below, the man is moving a crate over a cement floor in the direction as indicated by the arrow.



What can he do to move the crate using less force?

- (1) Place the crate on wheels.
- (2) Apply a layer of oil to his hands.
- (3) Direct his push to the bottom of the crate.
- (4) Move to the front of the crate to pull it instead.

16. Four bars, K, L, M and N, were suspended from a ceiling next to one another. The bars were observed to swing towards or away from each other as shown below.



The bars were either made of lodestone or non-magnetised metals. Based on the observation made above, which one of the following shows the most likely materials that bars K, L, M and N are made of?

	Bar K	Bar L	Bar M	Bar N
(1)	aluminium	lodestone	lodestone	cobalt
(2)	cobalt	iron	lodestone	copper
(3)	aluminium	lodestone	nickel	lodestone
(4)	copper	steel	lodestone	lodestone

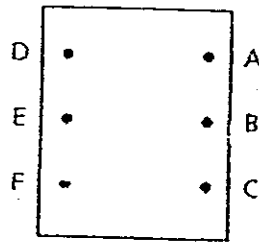
17. Study the following statements about gravity.

- P Gravity causes objects to have mass.
 Q Gravity is a force that can be a push or a pull.
 R Gravity acting on any object on Earth is the same.

Which of the statement(s) is/are correct?

- (1) Q only
 (2) R only
 (3) P and Q only
 (4) P and R only

18. Elliot made a circuit card with 6 fasteners, A, B, C, D, E and F which were connected on the underside. He connected a circuit tester to 2 of the fasteners at a time and placed a tick whenever the bulb lighted up.

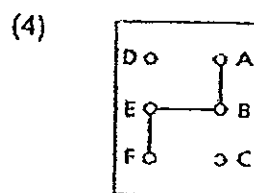
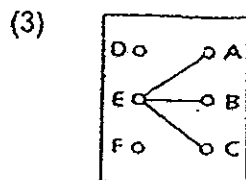
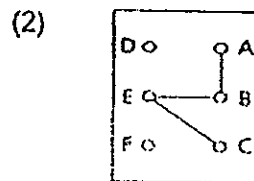
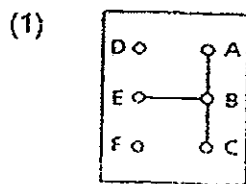


Circuit card

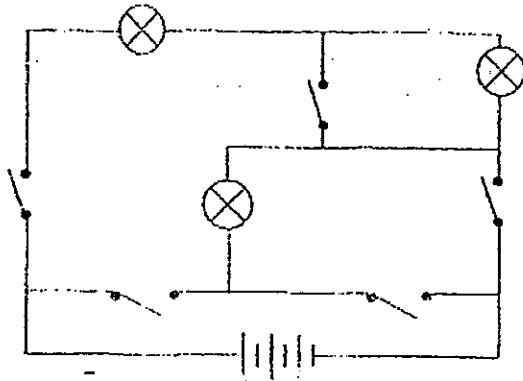
He obtained the following results.

Fasteners	A	B	C	D	E	F
A	■	√	√		√	
B	√	■	√		√	
C	√	√	■		√	
D				■		
E	√	√	√		■	
F						■

Based on his results, which one of the following connections is not possible?



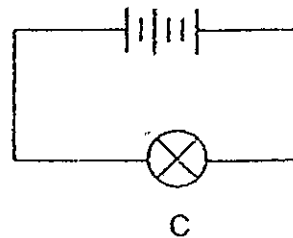
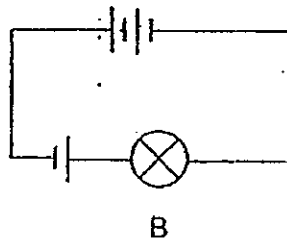
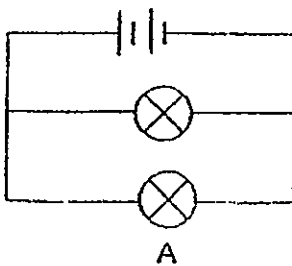
19. Study the circuit diagram shown below.



What is the least number of switches that must be closed for all the bulbs to light up?

- (1) 1 switch only
- (2) 2 switches only
- (3) 3 switches only
- (4) 4 switches only

20. Three electrical circuit diagrams are shown below. The batteries and bulbs used in these circuits are identical.



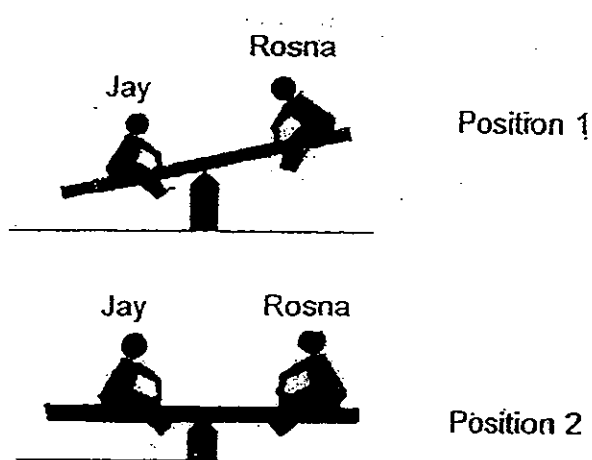
Which one of the following shows the correct arrangement of the circuits from the brightest to the dimmest bulb.

- (1) A, B, C
- (2) B, A, C
- (3) B, C, A
- (4) C, A, B

21. Which one of the following groups consists only of sources of energy?

- (1) sun, waves, wind
- (2) fuel, air, waterfall
- (3) wood, water, wind
- (4) coal, magnet, natural gas

22. Jay and Rosna were playing on a see-saw.



Which one of the following statements about Jay and Rosna is incorrect?

- (1) When they stopped in position 1, Jay did not possess any kinetic energy.
 - (2) Jay, who is heavier, possessed more energy than Rosna when the see-saw is at position 2.
 - (3) Both Jay and Rosna possessed no energy once the see-saw was balanced as seen in position 2.
 - (4) When they stopped in position 1, Rosna possessed more gravitational potential energy than kinetic energy.
23. The energy conversion shown below takes place when a microwave oven is used.

electrical energy \longrightarrow heat energy + kinetic energy + sound energy

Only the heat energy and the kinetic energy are useful in the cooking of the food in the microwave oven.

Which one of the following would show the same energy conversion as the microwave oven?

- (1) Radio
- (2) Hairdryer
- (3) Electric iron
- (4) Vacuum cleaner

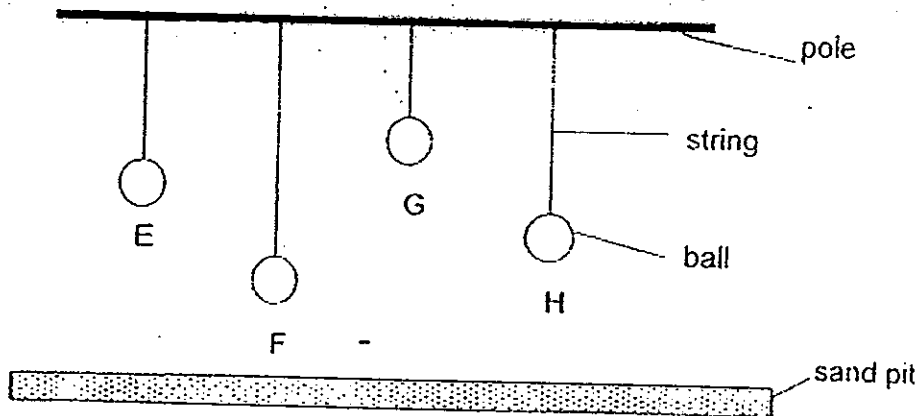
24. Raymond classified the following underlined objects into 3 groups, A, B and C equally, according to the energy they possess.

A spinning top
A moving windmill
A piece of charcoal
A wound-up toy car
A compressed spring
A plate of vegetables

Which one of the following could possibly represent the headings for groups A, B and C correctly?

	Group A	Group B	Group C
(1)	Elastic Potential Energy	Chemical Potential Energy	Gravitational Potential Energy
(2)	Heat Energy	Kinetic Energy	Electrical Energy
(3)	Kinetic Energy	Chemical Potential Energy	Elastic Potential Energy
(4)	Kinetic Energy	Electrical Energy	Elastic Potential Energy

25. Four balls, E, F, G and H, of the same size, mass and material were hung from a pole with strings, at different height above a sand pit, as shown in the diagram.



Based on the setup above, which of the following statements are correct?

- A The same amount of gravity was acting on all the balls.
- B Ball G possessed the most amount of gravitational potential energy.
- C Ball E would create a smaller dent in the sand pit than ball H when the strings were cut.
- D All the balls possessed the same amount of gravitational potential energy since they had the same mass.
- E Ball F would drop the slowest when the string was cut as it possessed the least amount of gravitational potential energy.

(1) A and B only

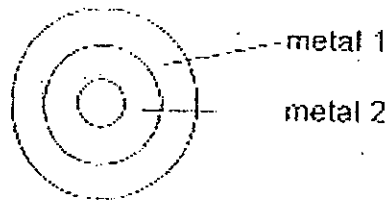
(3) A, C and E only

(2) A and D only

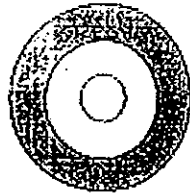
(4) B, C and E only



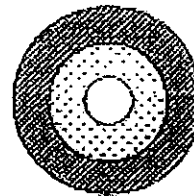
26 Different metals expand at different rates when heated. To make an object, 2 different metal rings are fitted tightly together, as shown below.



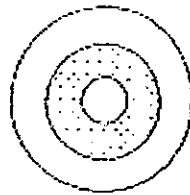
Four such objects, P, Q, R and S, were fitted together as shown below.



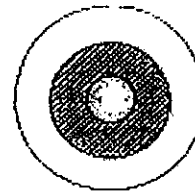
Object P



Object Q



Object R



Object S

Key



Metal A



Metal B



Metal C



Metal D

When the four objects were heated evenly in a beaker of boiling water for 5 minutes, it was observed that the inner rings always dropped off from the outer rings.

Arrange the four metals starting from the one which expands the most to the one which expands the least when heated.

→ Expand the least

- (1) B A D C
- (2) B C D A
- (3) D B A C
- (4) D C A B

- 27 Minyi magnetised a metal rod, Y, using a strong magnet. She then put the magnetised rod Y close to a pile of pins and it attracted 12 pins. She wanted to repeat the experiment. However, Minyi dropped rod Y three times.

Minyi then put rod Y close to the pile of pins again. Which of the following are possible observations she could get?

- A Rod Y could attract less pins
- B Rod Y could attract more pins.
- C Rod Y could not attract any pins.
- D Rod Y could attract the same number of pins.

(1) A and C only

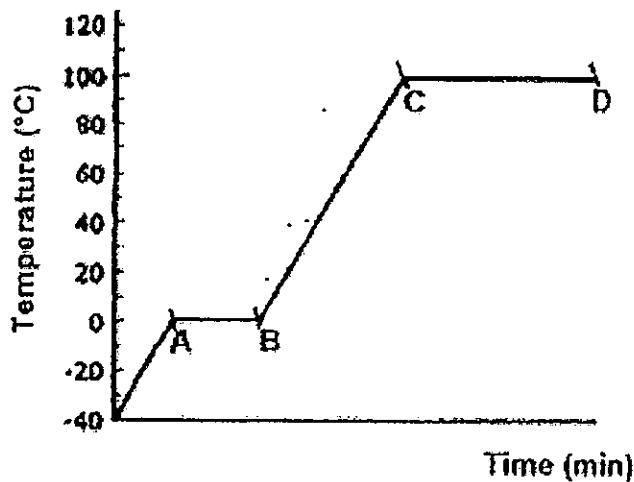
(2) B and D only

(3) A and D only

(4) A, C and D only

28

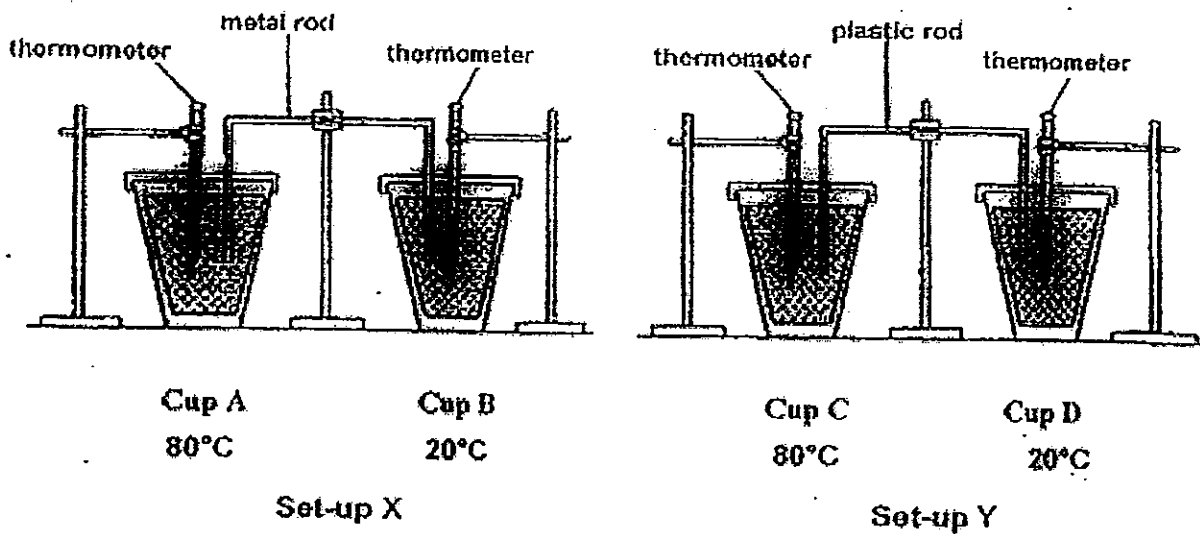
Claire heated a beaker of ice and plotted a graph showing its temperature change over a period of time.



Based on the graph above, which one of the following statements is correct?

- (1) The ice lost heat at AB.
- (2) At point A, all the ice had melted.
- (3) At point C, the water stops gaining heat.
- (4) The fastest rate of evaporation is taking place at CD.

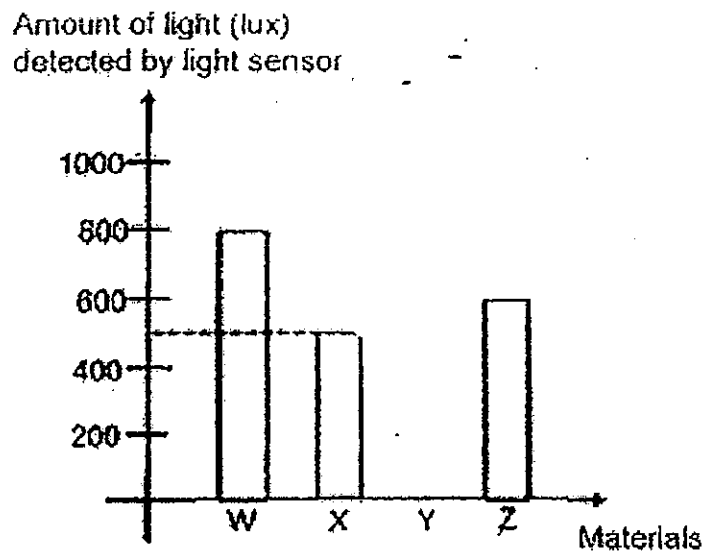
29. Phui Qing filled 4 identical insulated cups with water at different temperatures and covered them as shown below. She inserted the ends of a metal rod into cups A and B and inserted the ends of a plastic rod into cups C and D. She placed Set-ups X and Y at room temperature.



After 10 minutes, she recorded the temperature of the water in each of the cups. Which one of the following shows the correct arrangement of the cups from the hottest to the coldest?

	Hottest	—————→	←	Coldest
(1)	A		C	B
(2)	A		C	D
(3)	C		A	D
(4)	C		A	B

- 30 An experiment was conducted to find out how much light could pass through four different materials W, X, Y and Z using a datalogger with a light sensor.



Based on the graph above, which one of the following statements is true?

- (1) Material Y is transparent.
- (2) Material Z allows less light to pass through it than Material W.
- (3) When Material X and Material Z are placed together, only 500lux of light can pass through them.
- (4) The total amount of light that can pass through Material W and Material X when they are placed together is 1300lux.

End of Booklet A---

NANYANG PRIMARY SCHOOL

PRIMARY 6 SCIENCE
CONTINUAL ASSESSMENT 1
2012

BOOKLET B

Date : 28 February 2012

Duration : 1 h 45 min

Name : _____ ()

Class: Primary 6 ()

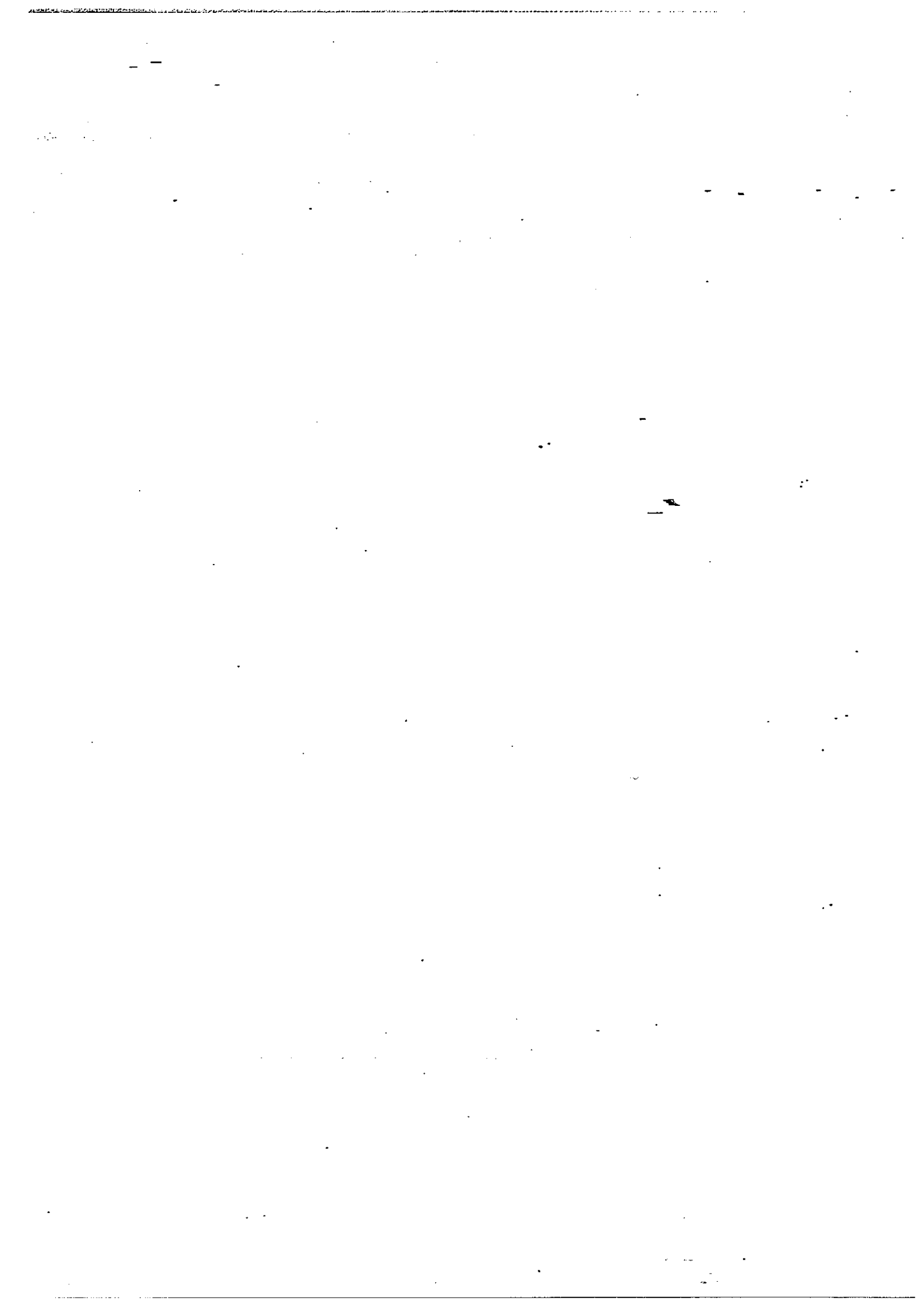
Marks Scored:

Booklet A:		60
Booklet B :		40
Total :		100

Parent's signature:

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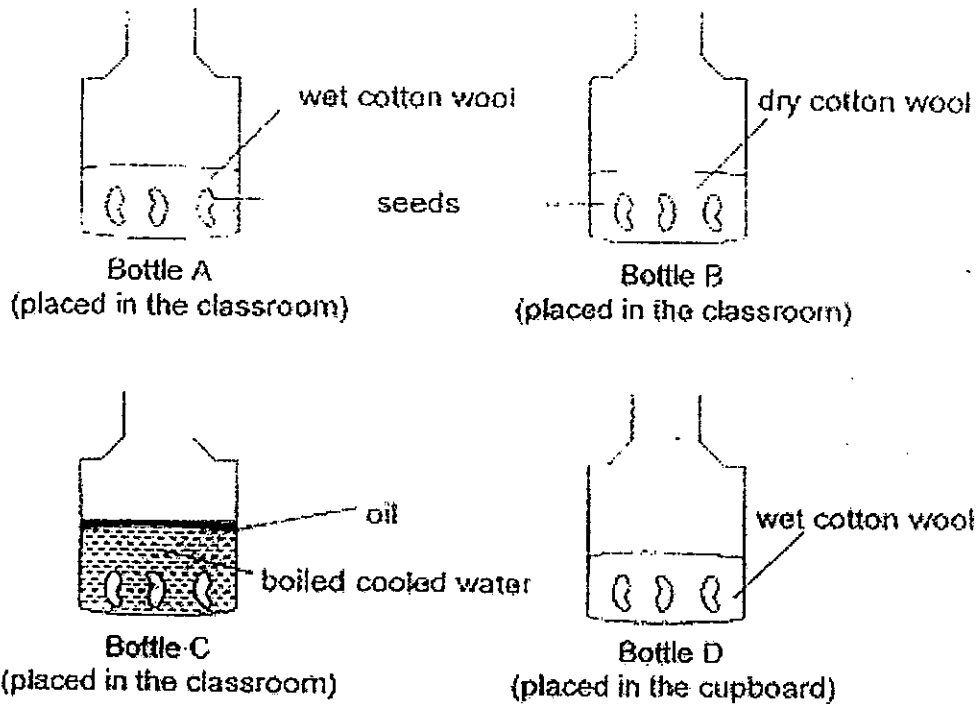
Booklet B consists of 14 printed pages including this cover page.



Section B (40 marks)

Write your answers to questions 31 to 44 in the spaces provided.

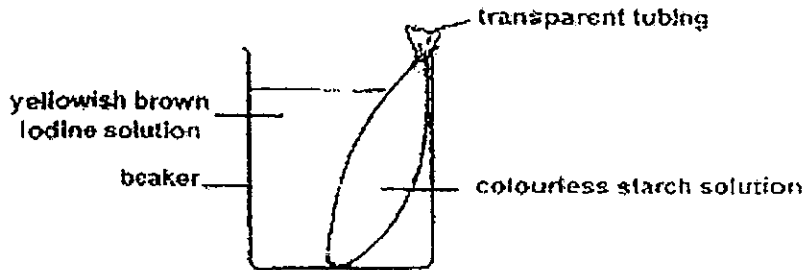
31. Tim prepared the following set-ups by placing some soya bean seeds into four similar bottles.



- (a) State the aim of Tim's experiment based on the set-ups above. [1m]

- (b) In which of the bottle(s) would the seeds grow into seedlings? Explain your answer. [2m]

- 32 Faith poured starch solution into a special transparent tubing and left it in a beaker of iodine solution as shown in the set-up below. At the beginning of the experiment, the solution in the tubing was colourless.



After 30 minutes, she removed the tubing from the beaker and observed that the starch solution inside had turned blue-black.

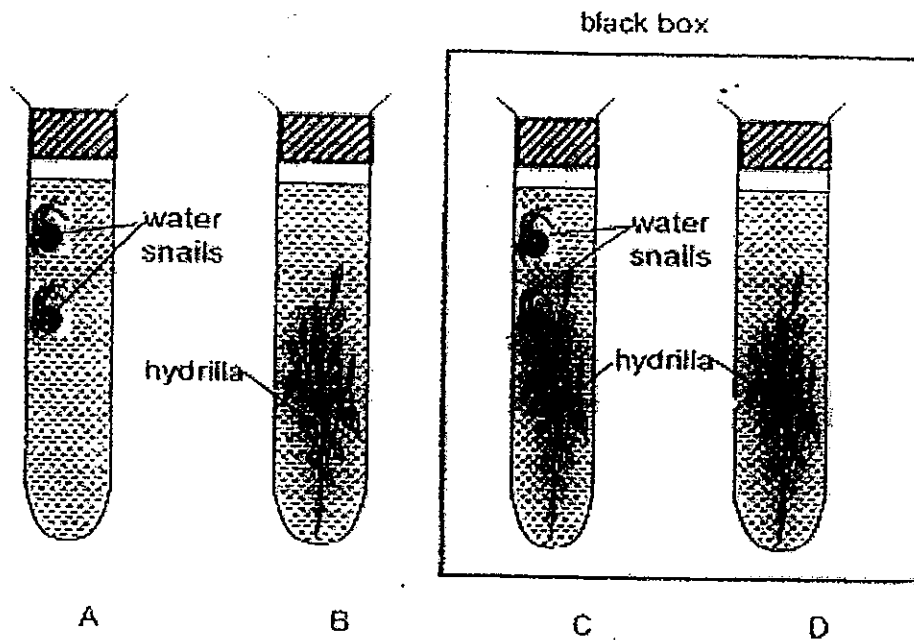


- (a) Explain how the starch solution in the tubing turned blue-black. [1m]

- (b) State the part of a cell that has a similar function to the special tubing that was used in this experiment. [1m]

33. Kim Seng carried out an experiment using some water snails and hydrilla plants. Water with the same amount of dissolved carbon dioxide was used to set up the experiment as shown in the diagram below. A stopper was placed at the opening of each test tube

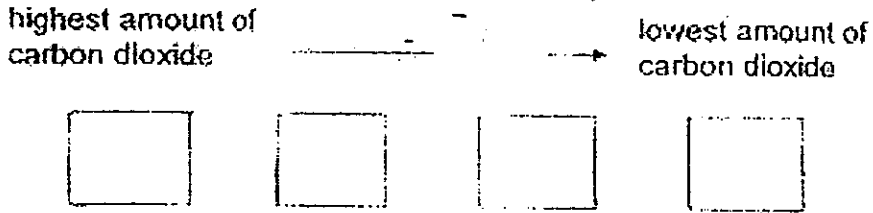
Setup A and setup B were left in the sun for 2 hours while setup C and setup D were placed in a black box for the same duration of time



At the end of the experiment, Kim Seng measured the amount of carbon dioxide in each setup again.

- (a) Kim Seng found that there was more carbon dioxide in setup A than setup B. Explain clearly why there was a difference in the amount of carbon dioxide in both setups. [2m]

(b) Arrange the setups in order, starting with the one with the highest amount of carbon dioxide at the end of the experiment by filling in the boxes with A, B, C and D. [1m]

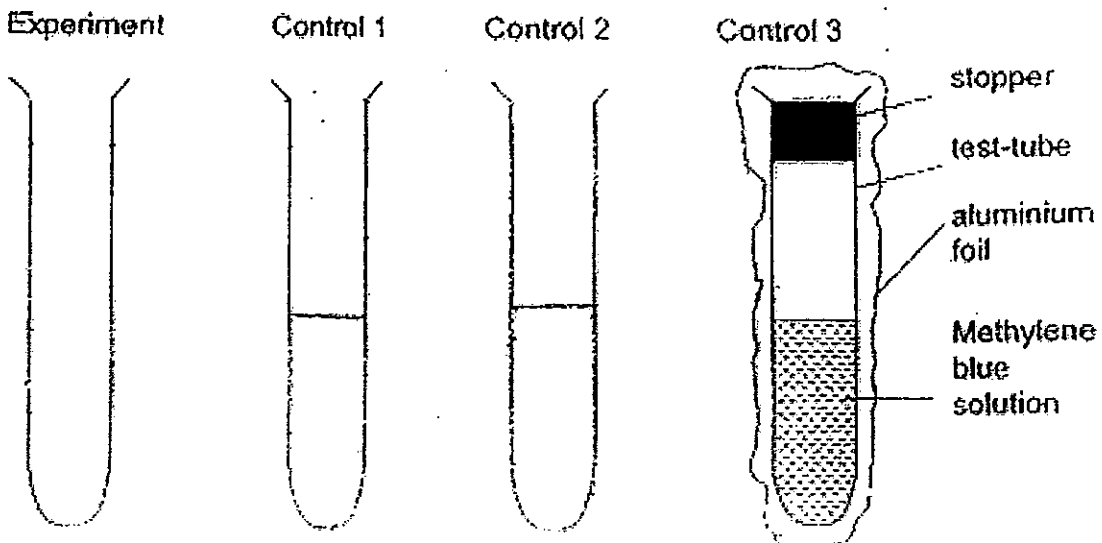


(c) Explain why a stopper must be used to cover each test tube. [1m]

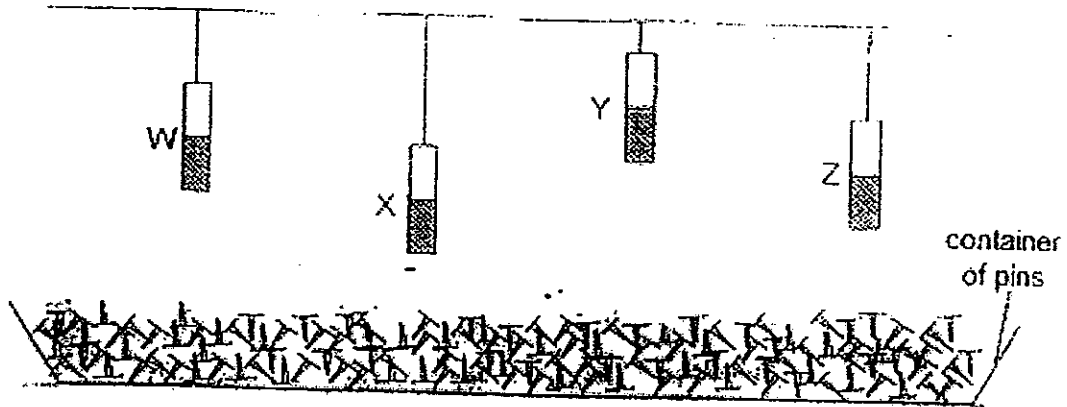
34. You plan to conduct an experiment to show that oxygen is released from green plants during photosynthesis. You are given only the materials listed in the table below.

Methylene blue solution - turns blue in the presence of excess oxygen
test-tubes
rubber stoppers
sheets of aluminium foil
Hydrilla plants

Using the materials given, complete the drawing below to show the experiment you would set up. You need to set up three controls for your experiment. Control 3 has already been drawn for you. All items and contents should be labelled clearly. [3m]



35. In an experiment, Wei Xun hung four identical magnets, W, X, Y and Z, a certain distance above a container of pins as shown below. He aims to find out how the distance between the magnet and the pins affect the number of pins attracted by the magnet.



He repeated his experiment three times and recorded his results in the table below.

Magnet	Number of pins attracted		
	1 st try	2 nd try	3 rd try
W	9	8	7
X	14	15	14
Y	4	3	3
Z	10	10	11

- (a) State the conclusion that Wei Xun could make based his results. [1m]

- (b) List two variables that he should keep the same to ensure that he is carrying out a fair test. [2m]

(i) _____

(ii) _____

36 Mrs Singh noticed that her ring slipped easily from her finger when she washed her hands. However, this did not happen when her hands were dry.

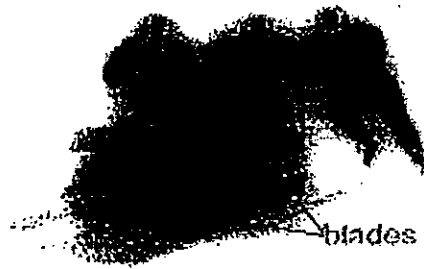
- (a) Name the force that is useful in keeping the ring on her finger
[1m]

In sports, gymnasts are observed to dust their hands with chalk to absorb the moisture before performing on the bars.



- (b) Explain how applying chalk on their hands will help them? [1m]

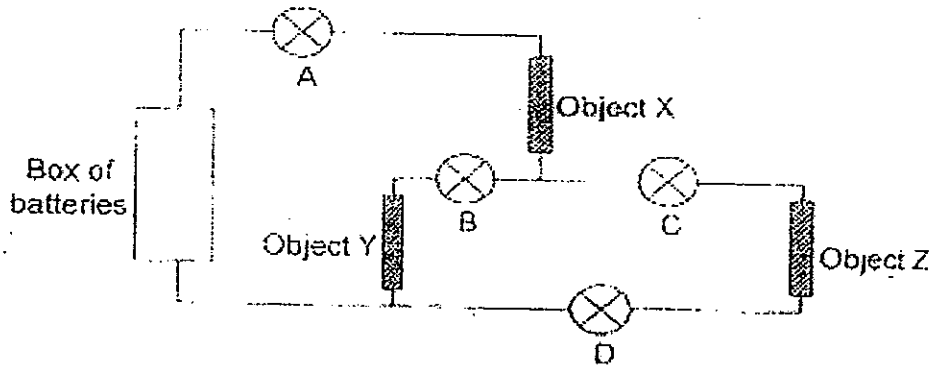
In another sport, bobsledding requires teams of four people to steer their sled through narrow, iced tracks to reach the finishing line in the shortest possible time. The sleds have blades instead of wheels.



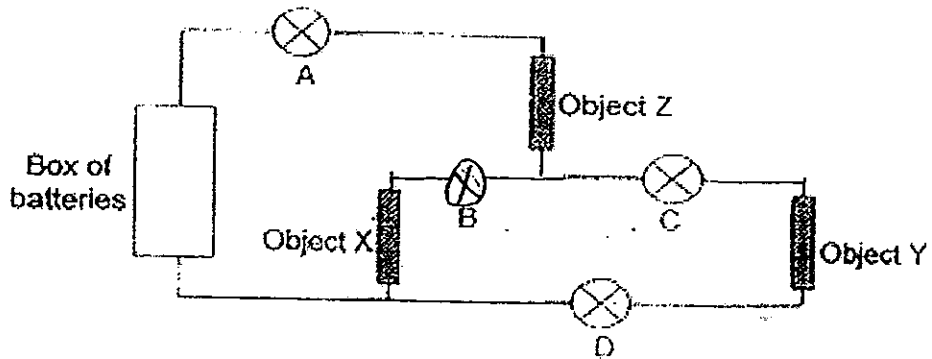
- (c)(i) What is the relationship between the amount of force mentioned in (a) and the speed of the sled? [1m]

- (ii) Suggest a change that can be done to increase the speed of the sled [1m]

37. The diagram below shows 4 functioning bulbs, A, B, C and D in a circuit that is connected correctly. Objects X, Y and Z are solids made of different materials.



When all these objects are used to close the circuit, only bulbs A, C and D lit up. The position of objects X, Y and Z is then rearranged as shown below.



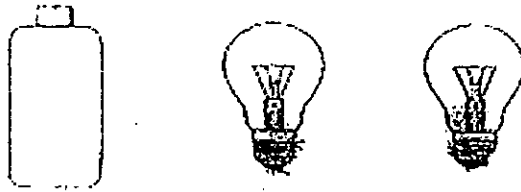
Based on the new arrangement of objects X, Y and Z, put a tick (✓) in the box below to indicate which bulb would light up and which bulb would not. [2m]

Bulb	Lit Up	Did not light up
A		
B		
C		
D		

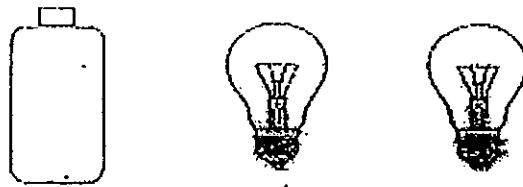
38. - Using lines to represent wires, connect all the batteries and the bulbs such that the bulbs in circuit A are brighter than the bulbs in circuit B.

[2m]

(a) (i) Circuit A



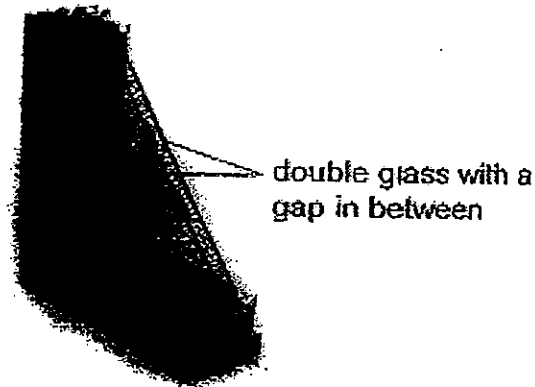
(ii) Circuit B



(b) State an advantage of using a circuit where the bulbs are arranged in parallel.

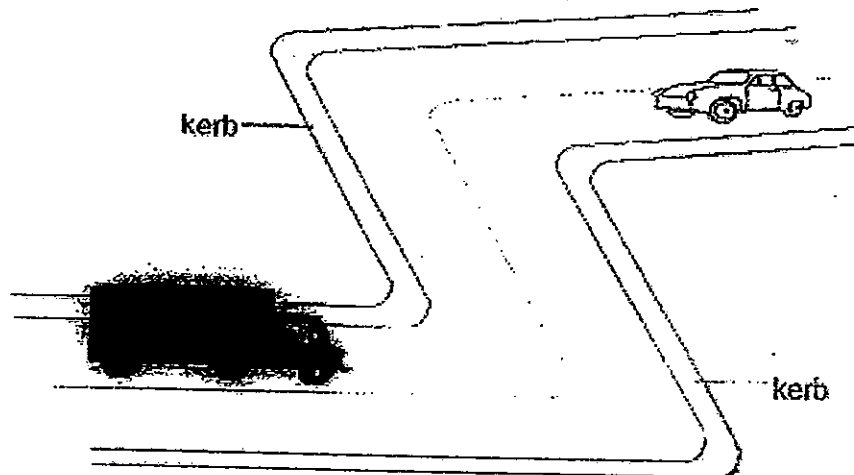
[1m]

39. Houses in temperate countries have to withstand the low temperatures during the winter season. Many of them use a double glass window with air trapped in the gap for their window panes.



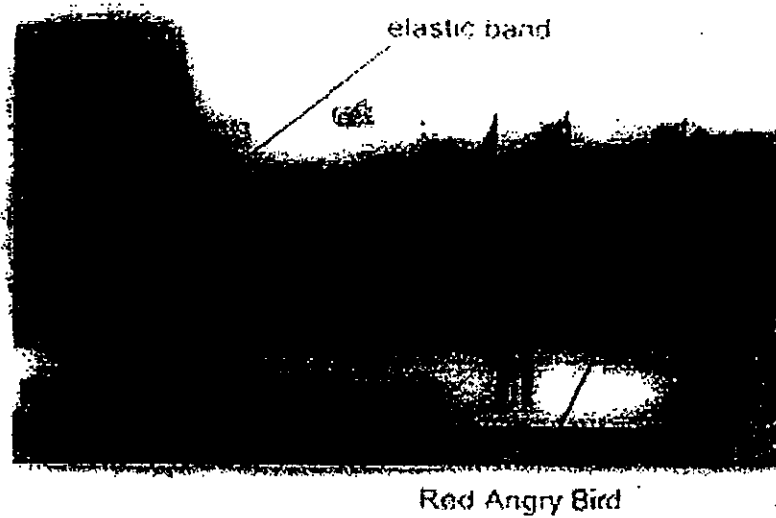
Explain how the double glass window with a gap in between helps to keep the house warmer. [2m]

40. Mr. Koh was driving a car along a winding road. A truck was travelling in the opposite direction as shown below.

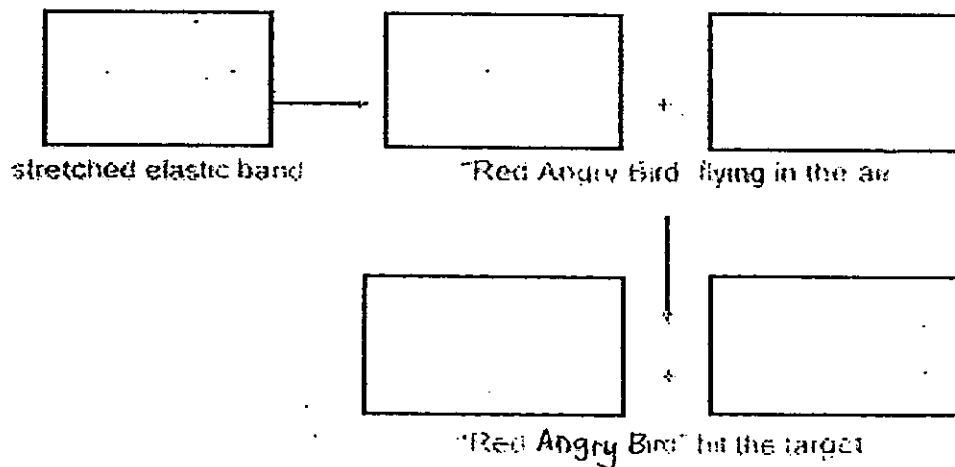


- (a) Write the letter 'M' on the kerb in the diagram above to indicate two positions to install mirrors so that Mr Koh can see the truck. [1m]
- (b) State the property of light that enables the mirror to function as needed above. [1m]

- 41 Taking advantage of the Angry Bird craze, a game with similar concept was set up in a theme park. When playing the game, the player needs to put the "Red Angry Bird" on the elastic band of the catapult, pull it, release the catapult and launch the "Red Angry Bird" at the target.



- (a) State the energy conversion from the point when the "Angry Bird" was placed on the stretched catapult to the point when it hit the target. [2m]

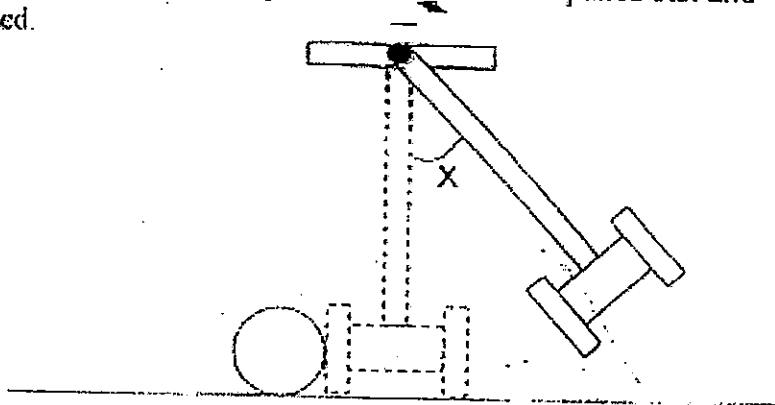


Xiao Y played the game but he launched the "Red Angry Bird" too far and missed the target.

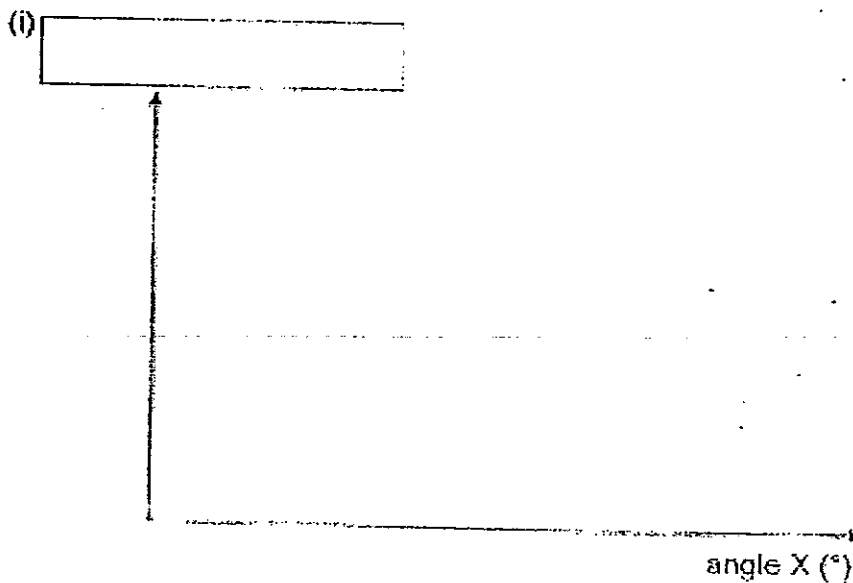
- (b) Using the same "Red Angry Bird" suggest what he could do if he wanted to hit the target in the next try. [1m]

(c) Explain your suggestion in (b) in terms of energy conversion. [1m]

42. The diagram shows a mallet pivoted at one end which enables it to swing freely. A tennis ball was placed just touching the mallet so when the mallet was pulled back and released, it would hit the ball. Angle X represents the angle that the mallet was pulled back and released.



(a) Draw a line graph in the space below to show how angle X would affect the distance moved by the ball. One of the axes has already been labelled for you. Write the correct label for (i) in the box provided. [2m]



(b) What would you observe if a heavier ball was used. [1m]

43. The diagram below shows a hydro-electric plant.

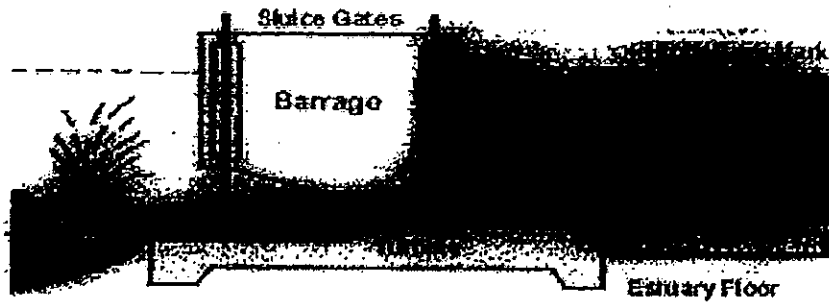
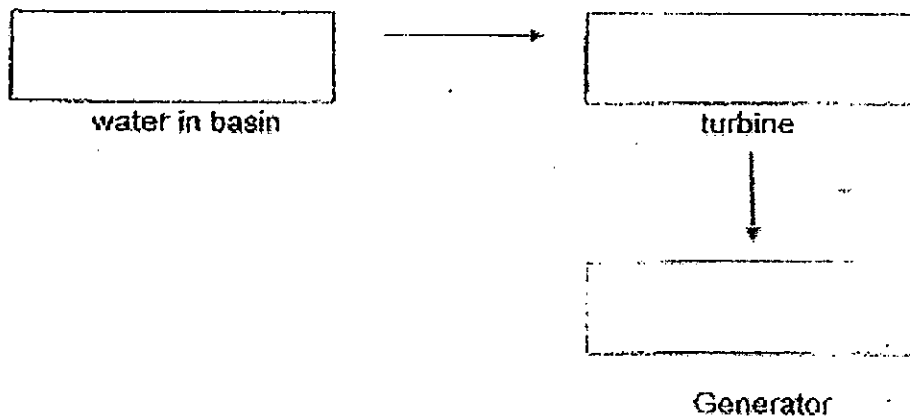


Figure 1 Ebb generating system with a bulb turbine
(Adapted from Energy Authority of NSW Tidal Power Fact Sheet)

(a) State the energy conversion from the running water to the electricity produced. [1m]



(b) What is the advantage of a hydroelectric power station over a windmill power station? [1m]

44. The drawing below shows a model toy car.

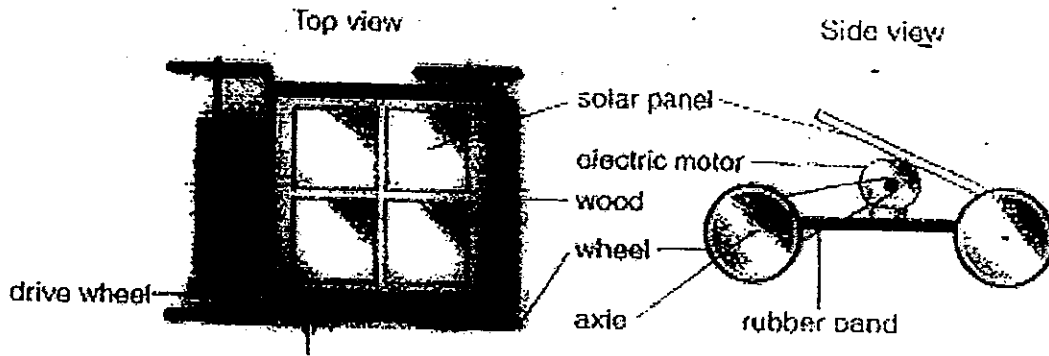


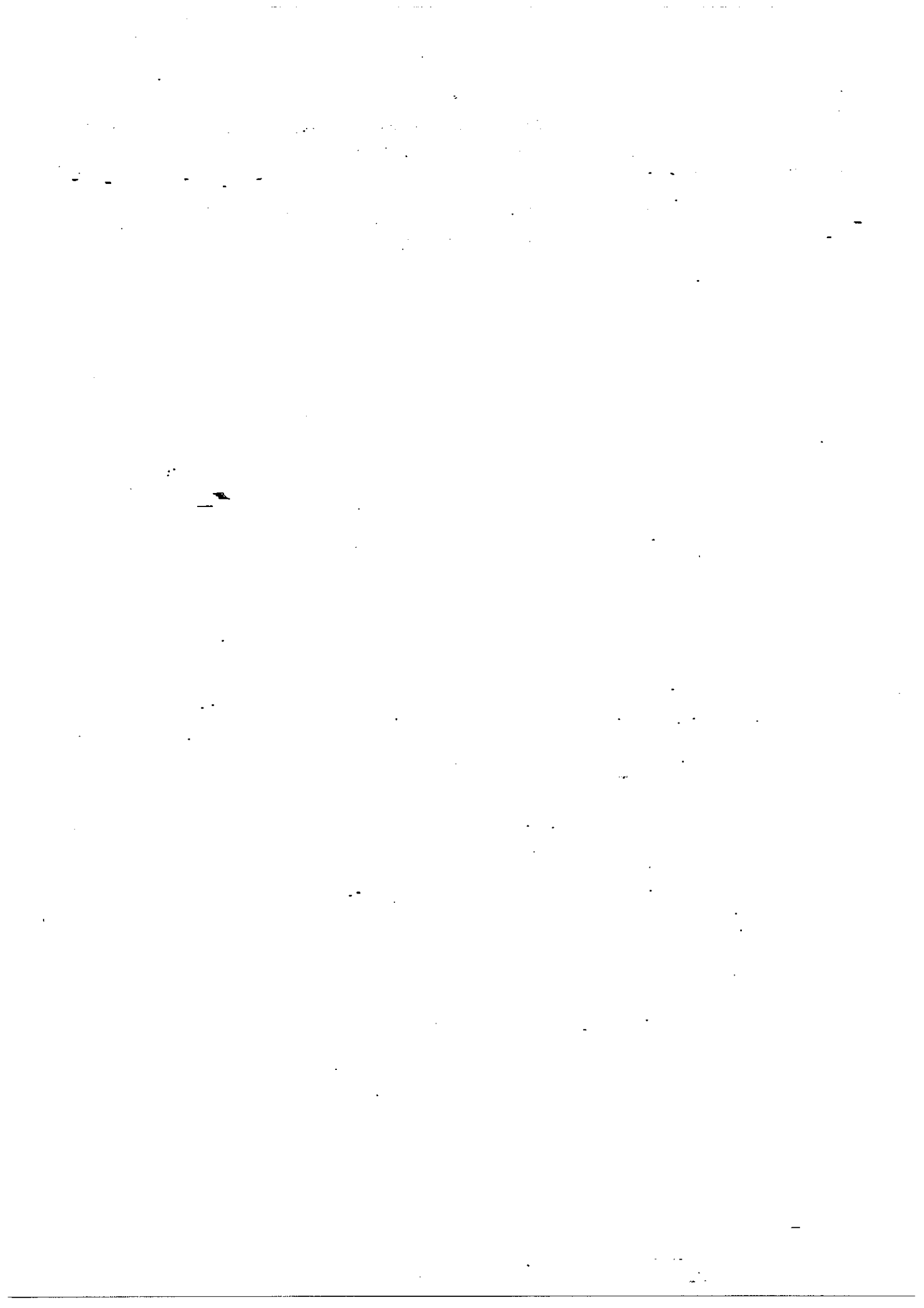
Image from 2004 NSW New South Wales Paper

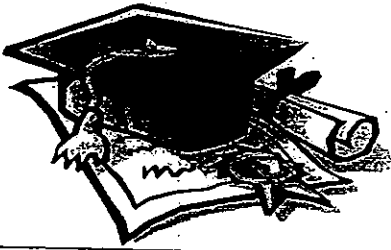
(a) State the energy source of the model toy car [1m]

(b)(i) Write down a modification to be made to the model toy car so that it could move faster. [1m]

(ii) Explain how the modification you made in (i) could help the model car to move faster. [1m]

-----End of Booklet B-----





ANSWER SHEET

EXAM PAPER 2012

**SCHOOL : NANYANG
SUBJECT : PRIMARY 6 SCIENCE**

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	2	2	3	3	2	1	4	3	1	4	1	3	4	1	4	2

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
4	2	2	1	3	2	3	1	1	1	4	4	2

31)a)To find out which are the conditions, water, oxygen and light needed for germination of seeds to occur.

b)A and D. They have oxygen, water and warmth which are required for seed germination.

32)a)The yellow brown iodine solution passed through the transparent tubing and starch solution reacts with iodine turning it blue-black.

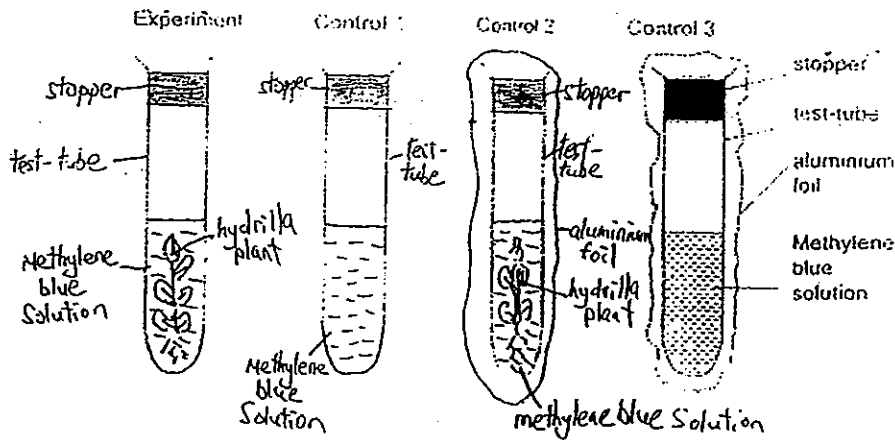
b)Cell membrane.

33)a)In A, the water snails respire to take in oxygen and give out carbon dioxide. In B, the hydrilla plant photoeynthesisise in the presence of light, taking in carbon dioxide and giving out oxygen. Rate of photosynthesis of the higher than the rate of respiration.

b)C A D B

c)It is to ensure that the atmospheric air does not dissolve in the water of each test tube hence affecting the amount of carbon dioxide recorded.

34)



35)a)The shorter the distance between the magnet and container of pins,the greater the number of pins attracted by the magnet.

- b)i)Size of the pins.
- ii)Material of pins.

36)a)Frictional force.

b)The higher the frictional force between the gymnast's hands and the bar, so they will not slip off easily.

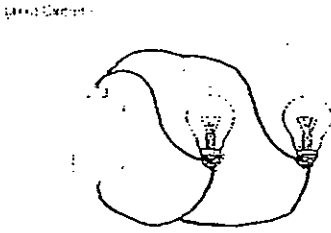
c)i)The higher the frictional force between the sled and the snow, the lower the speed of the sled.

- ii)Reduce the mass of the sled.

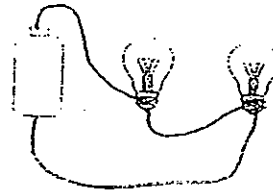
37)

Bulb	Lit up	Did not light up
A	✓	
B	✓	
C		X
D		X

38)a)i)



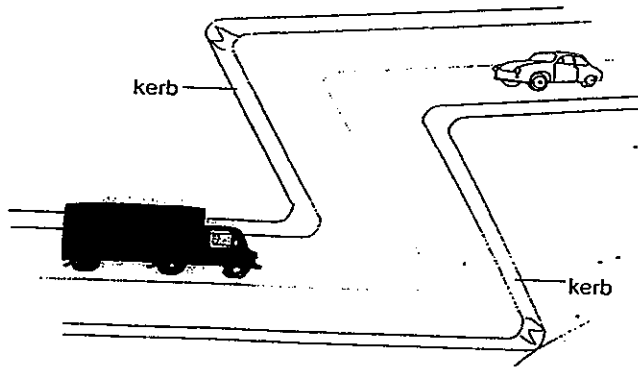
ii)



b)When one bulb fuses, the other bulbs still light up.

39)There is air trapped in the gap. Air is a poor conductor of heat so heat in the house will not be lost to the surroundings easily.

40)a)



b)Light travels in a straight line.

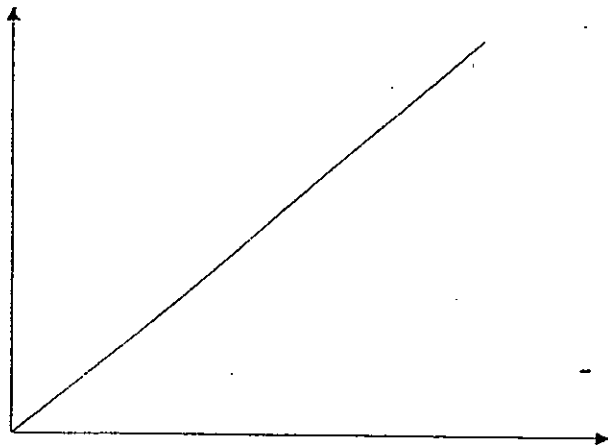
41)a)Elastic potential energy \rightarrow Kinetic energy + Gravitational potential energy

b)Pull the elastic band less.

c)When the elastic is pulled less, there will be less elastic potential energy to convert to less kinetic energy to move a shorter distance to hit the target.

42)a)i)

Distance moved
by ball (cm)



b)The heavier ball will move a shorter distance .

43)a)Kinetic energy → Kinetic energy



Electrical energy

b)Wind is not as readily available in a windmill power station as the water in a hydroelectric power station.

44)a)Sun.

b)i)Increase the size of the solar panel.

ii)The larger the solar panel, there will be more light energy to convert to more electrical energy to move the toy car faster.