

NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 2012 PRIMARY 5

SCIENCE

BOOKLET A

30 Multiple Choice Questions (60 marks)

Total Time for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (UAS) provided.

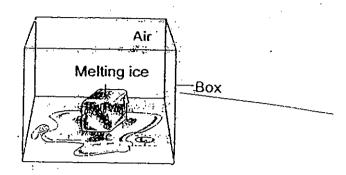
Marks Obtained

| Date : 3 May 2012 | Parent's Signature: | |
|-------------------|---------------------|------------|
| Name: | () | Class: P 5 |
| Total | /100 | |
| Booklet B | / 40 | |
| Booklet A | / 60 | |

Section A: (30 x 2marks = 60marks)

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.

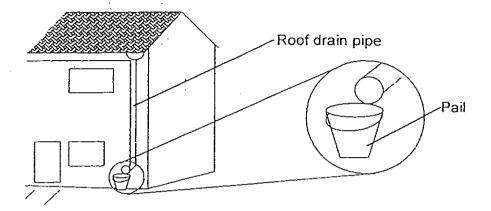
1. A block of melting ice is placed in a box as shown in the diagram below.



What will happen to the temperature of the air and melting ice in the box during the process of melting?

| | Temperature of | | | |
|-----|------------------|------------------|--|--|
| | Air | Melting ice | | |
| (1) | Remains the same | Increases | | |
| (2) | Increases | Remains the same | | |
| (3) | Decreases | Remains the same | | |
| (4) | Decreases | Decreases | | |

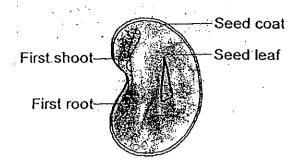
2. The diagram below shows how rainwater can be collected from the roof drain pipe of a house.



What can the rain water collected in the pail be used for?

- A Watering the plants
- B Washing the driveway
- C Filling up a marine aquarium
- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A , B and C
- 3. Which of the following characteristics or Stantorn terms pores and burgan seeds is/are similar?
 - A Both are dispersed by wind.
 - B Both are stored in a spore bag.
 - C Both enable the reproduction of plants
 - D Both are formed from the ovules of flowers.
 - (1) C only
 - (2) A and C only
 - (3) B and D only
 - (4) A, B and D only

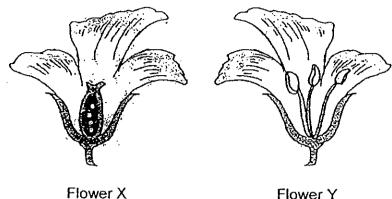
4. The diagram shows a seed of a young plant.



Which part will develop and make food for the plant in future?

- (1) First root
- (2) Seed leaf.
- (3) First shoot
- (4) Seed coat-
- 5. Susan wants to find out if the Musk of a coconut helps it to stoat. She prepares two coconuts and two basins with the same amount of water. Which of the following variables is the independent variable?
 - (1) The size of the basins.
 - (2) The size of the coconuts.
 - (3) The presence of the husk.
 - (4) The temperature of the water in the basin.

6. The diagram shows a cross section of 2 different flowers, Flower X and Y.

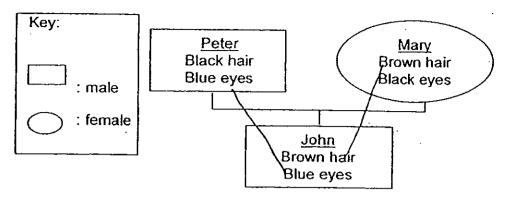


Flower Y

Which of the statement below is/are false?

- A Both flowers can grow into fruits
- B Both plants will receive pollen grain.
- C Both flowers have male and female parts
- (1) A and B only
- (2) B and C only
- (3) A, B and C
- (4) None of the above
- 7. Why does the male animal produce many sperms during fertilisation?
 - (1) To show that it is healthy.
 - (2) To shorten the time to fertilise the egg
 - (3) To fertilise the numerous eggs in the female..
 - (4) To increase the chance of a sperm fertilising the egg.

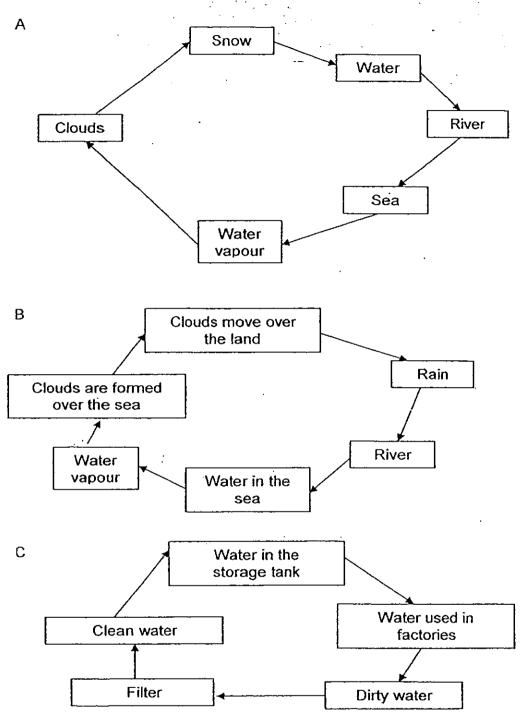
8. Look at the family tree below.



What trait(s) has John inherited from his father?

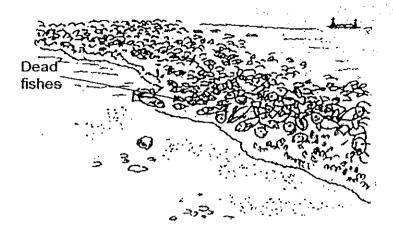
- (1) Blue eyes
- (2) Brown hair
- (3) Blue eyes, brown hair
- (4) Black eyes, brown hair
- 9. Weiming likes to be the through as mouth saying that he gets more air in that way. However, Siti says that it is not very healthy to breathe that way. Why does Siti say that?
 - (1) His heart will have to pump more blood.
 - (2) His lungs need to expand bigger and he will feel the pain.
 - (3) His mouth does not have hair to trap dust and dirt particles.
 - (4) His mouth will get bad breath because germs can enter his mouth easily.
- 10. Which of the following are carried by the blood in the circulatory system?
 - A Oxygen
 - B Digested food-
 - C Carbon dioxide
 - D Waste products
 - (1) A and C only
 - (2) B and D only
 - (3) A, C and D only
 - (4) A, B, C and D

11. Which of the cycle(s) below involve evaporation and condensation?



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

12. Study the picture below.

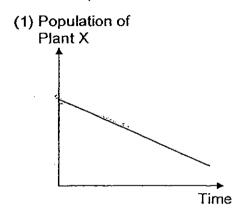


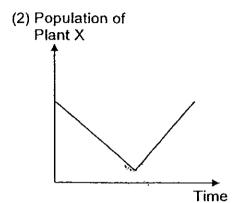
Which of the following could be the causes of what had happened?

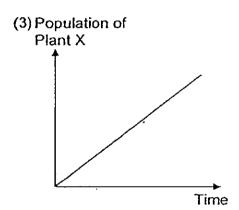
- A Too much rainwater
- B Oil spillage from ships.
- C Too much algae in the sea.
- D Release of industrial wastes in the sea.
- (1) A and B only
- (2) C and D only (3) B, C and D only
- (4) A, B, C and D

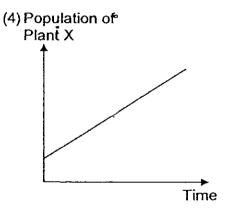
13. In a farm, Plant X is pollinated only by butterflies. Recently, the farmer found that the caterpillars are eating the leaves of his vegetables. In order to protect his vegetables, the farmer sprayed pesticide to kill the caterpillars.

Which graph below correctly shows the population of Plant X after the farmer has started spraying pesticide to kill the caterpillars?

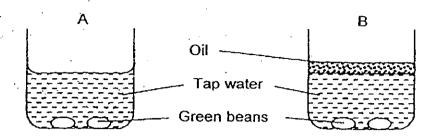








14 Michael prepares the set-ups as shown below. He hypothesises that convergences needed for seeds to germinate to become seedlings. He wants to test his hypothesis by using the set-up below.



Two days later, the seeds in both beakers germinated. He repeated the experiment and got the same results. Which of the following explains why his experiment failed to test his hypothesis?

- (1) There was too much oil in Beaker B.
- (2) Both beakers contain water with dissolved oxygen.
- (3) There was too much dissolved oxygen in Beaker A
- (4) The oil in Beaker B contained dissolved oxygen for the green bean seeds to germinate.

15. The table below records the characteristics of four flowers, A, B, C and D.

| Flower | Pe | Smell | |
|-----------|---------|-------------------|------------|
| | Size | Colour | |
| A | large | white ' | scented |
| 48 | * smalt | white | unscented. |
| С | large | brightly coloured | unscented |
| D | small | brightly coloured | scented: |

Which flower is most likely to be pollinated by wind?

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

16. Which one of the following descriptions about the sexual organs of humans is correct?

| | Testes | Ovaries |
|-----|------------------------------------|---|
| (1) | They fertilize the ovaries. | They receive the eggs. |
| (2) | They produce sperms. | They produce eggs. |
| (3) | They store a few male sperms. | There is only one egg in each ovary. |
| (4) | There are two testes in each male. | There is only one ovary in each female. |

- 17. Which of the following characteristics can be a result of both heredity and environmental conditions?
 - A Obesity
 - B Short fingernails
 - C Height
 - D Detached ear lobes
 - (1) A only
 - (2) A and C only

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

18. Study the diagram below carefully.



Which of the following statements about the developing foetus are true?

A It does not need food and water.

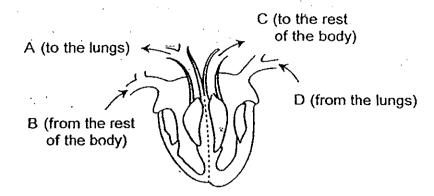
- B It is developed from a fertilised egg.
- C It is developing in the fallopian tube of its mother.
- D It carries genetic information from both its parents.
- (1) A and C only
- (2) B and D only
- (3) A, C and D only
- (4) B, C and D only
- 19. The table below shows the mixture of gases we inhale from the surrounding air.

| Nitrogen | Oxygen | Carbon Dioxide | Other gases |
|----------|--------|-------------------|-------------|
| 78% | 21% | 0.03% | 0.97% |

What is the mixture of gases when we exhale from our body?

| | Nitrogen | Oxygen | Carbon Dioxide | Other gases |
|-----|----------|--------|----------------|-------------|
| (1) | 78% | 15% | 5.83% | 1.17% |
| (2) | 78% | 15% | 0.03% | 6.97% |
| (3) | 50% | 21% | 5.83% | 23.17% |
| (4) | 50% | 21% | 0.03% | 28.97% |

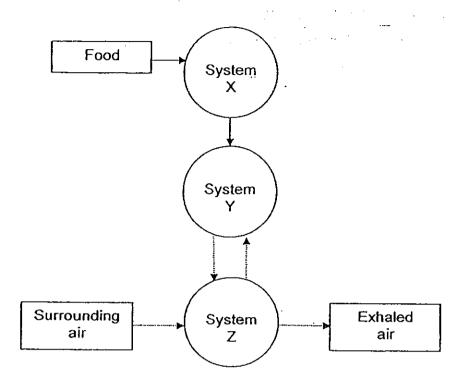
20. The diagram below shows how blood is circulated in our body.



Which one of the following rows correctly shows the amount of oxygen in our blood at A, B, C and D?-

| | Oxygen-rich blood | Blood with less oxygen |
|-----|----------------------|------------------------|
| (1) | A-and B | C and D _x |
| (2) | A _x and D | B and C |
| (3) | · P-and D | A and C |
| (4) | C and D | A and B |

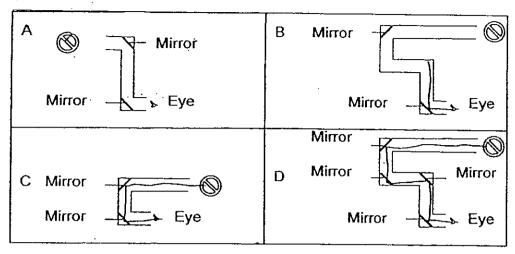
21. The diagram below shows how food and various gases are transported in the human body.



Which systems do X, Y and Z represent?

| | System X | System Y | System Z |
|-----|-------------|-------------|--------------|
| (1) | Circulatory | Respiratory | Digestive |
| (2) | Digestive | Respiratory | Circulatory. |
| (3) | Circulatory | Digestive | Respiratory |
| (4) | Digestive | Circulatory | Respiratory |

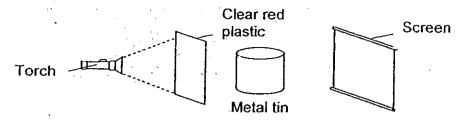
22. Which of the following apparatus allows Alvin to see the sign behind him without turning his head?



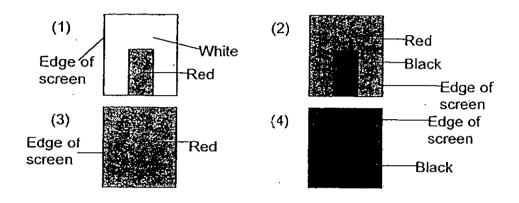
- (1) C only

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

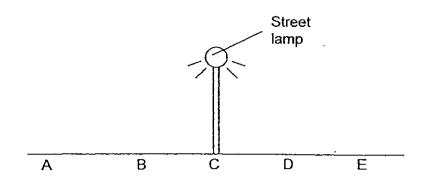
23. A metal tin is placed between a clear red plastic sheet and a screen as shown in the diagram below.



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



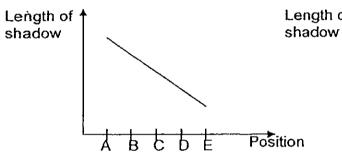
24. Bernice walked past a lit street lamp from A to E on a dark night as shown in the diagram below.



Which of the following graphs shows the likely changes in the length of Bernice's shadow when she walked past the lit street from A to E?

(1)

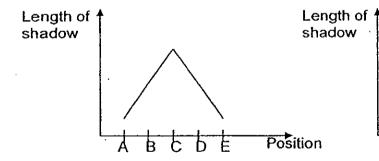
(2)

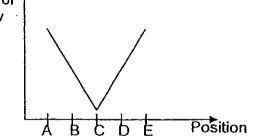


Length of shadow

(3)

(4)





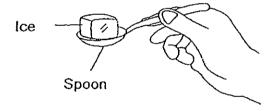
Position

25. Peter filled four identical beakers with some tap water. Then he heated the beakers of tap water with four identical Bunsen burners. He recorded the time taken for each beaker of water to boil in the table below.

| Beaker/Time | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|-------------|------|------|------|------|------|-------|-------|-------|-------|
| | min | min | min | min | min | min | min | min | min |
| Р | 25°C | 43°C | 67°C | 81°C | 95°C | 100°C | 100°C | 100°C | 100°C |
| Q | 25°C | 37°C | 54°C | 67°C | 79°C | 90°C | 100°C | 100°C | 100°C |
| R | 25°C | 34°C | 46°C | 58°C | 71°C | 85°C | 92°C | 100°C | 100°C |
| S | 25°C | 31°C | 43°C | 52°C | 60°C | 71°C | 84°C | 93°C | 100°C |

What could have resulted in the difference in the length of time required to boil the water in the various beakers?

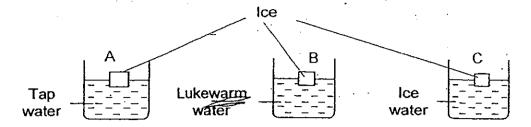
- (1) There were different amounts of water in the beakers.
- (2) The water in the beakers have different boiling points.
- (3) The water in the beakers have different initial temperature.
- (4) Different amounts of water in the beakers had changed from liquid state to the gaseous state.
- 26. Kimberly was holding a metal spoon with a cube of ice as shown. After some time, she felt that the spoon was cold.



Which of the following correctly explains why Kimberly felt that the spoon was cold?

- (1) The spoon lost heat to the ice and to her fingers
- (2) The spoon gained heat from the ice and from her fingers
- (3) The spoon lost heat to the ice and gained heat from her fingers,
- (4) The spoon gained heat from the ice and lost heat to her fingers.

27. Three identical pieces of ice were subjected to different conditions as shown in the diagram below.



Arrange the three pieces of ice according to the time they take to melt completely from the longest time to the shortest time.

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

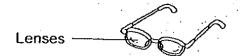
28. Study the table below.

| Statements | Object A | Object B | Object C |
|---------------------------------------|------------|----------|----------|
| Breaks into pieces when dropped | 7 | x | 1 |
| Can be seen through | Х | х | 7 |
| Can be scratched with a plastic ruler | , x | 1 | х |

Which of the following can these three objects be?

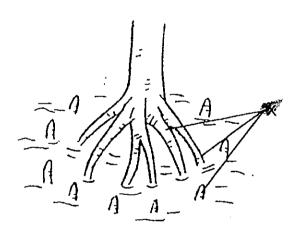
| | Object A | Object B | Object C |
|-----|--------------|----------------|--------------|
| (1) | Ceramic tile | Metal ruler | Glass bottle |
| (2) | Ceramic tile | Paper bag | Glass bottle |
| (3) | Glass bottle | Paper bag | Ceramic tile |
| (4) | Glass bottle | Plastic bottle | Paper bág |

29. The lenses of spectacles are either made of glass or plastic.



Parents usually prefer to have plastic lenses for their children's spectacles. What are the possible reasons?

- A Plastic is lighter than glass.
- B Plastic is waterproof but glass is not.
- C Plastic does not break as easily as glass.
- D Plastic is more flexible than glass.
- (1) A and C only
- (2) B and D only
- (3) B, C and D only
- (4) A, B, C and D
- 30. The diagram below shows a plant that grows in a mangrove swamp.



What are the functions of part X?

- A Takes in air.
- B Makes food
- C Holds the plant firmly
- D Takes in water and dissolved mineral salts
- (1) A and B only
- (2) C and D only
- (3) A, C and D only
- (4) B, C and D only



NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 2012 PRIMARY 5

SCIENCE

BOOKLET B

14 Open-ended questions (40 marks)

Total Time for Booklets A and B: 1 hour 45 minutes

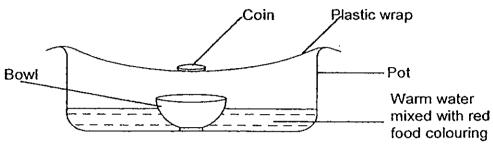
INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.

| Marks Obtained | |
|-------------------|---------------------|
| Section B | /40 |
| <u></u> | |
| Name: | () Class: P.5 |
| | |
| Date : 3 May 2012 | Parent's Signature: |

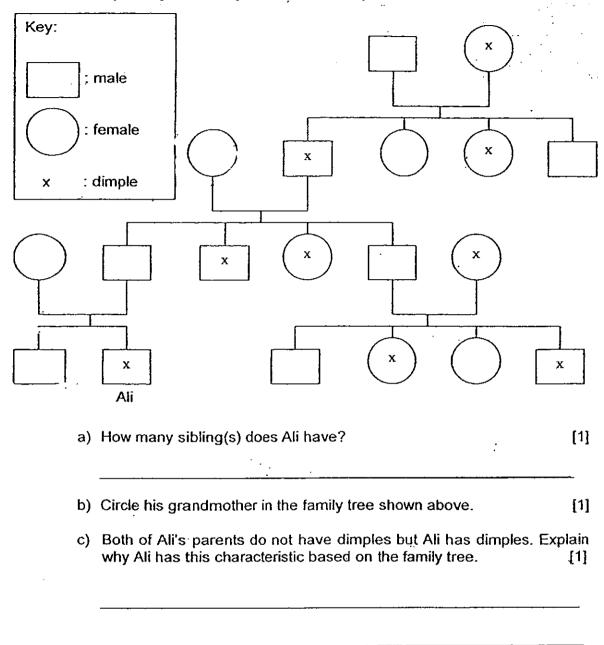
Section B: (40marks)
Write your answers to question 31 to 44.
The number of marks allocated is shown in brackets [] at the end of each question or part question.

31. Josef set up an experiment as shown in the diagram below. He wanted to collect some liquid in the bowl after an hour.



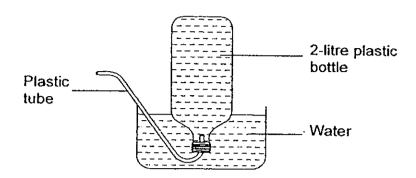
| | food colouring |
|---|-------------------------------------|
| a) What is the colour of the liquid collected in the bow appropriate box. | l? Put a tick in the [1] |
| Clear water | |
| Red-coloured water | |
| b) Explain how the liquid is collected in the bowl in the s | et-up above. [2] |
| | |
| | |
| | |
| | |
| c) Josef collected 30 ml of liquid after an hour. What call up to increase the amount of liquid he can collect in a | n he do to the set- an hour? [1] |
| | |
| | |
| Sco | ore |

32. The diagram below shows Ali's family tree from his paternal side of his family. Study it carefully and answer the questions that follow.

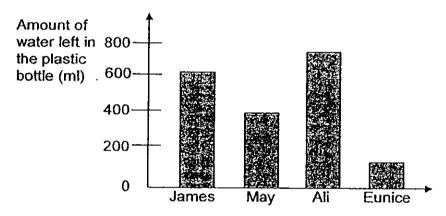


| Score | |
|-------|---|
| | 3 |

33. A group of pupils set up an experiment as shown in the diagram below to find out whose lungs can hold the most air.



Each pupil took a deep breath and exhale as much as he or she could into the plastic tube. The graph below shows the results they obtained.



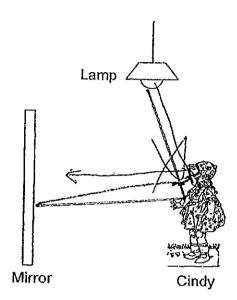
a) Arrange in order with the pupil having the largest lung capacity to the pupil with smallest lung capacity. [2]

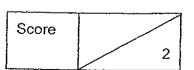
| b) Explain how th | nis set-up is able to | measure their lung o | capacity. | [1] |
|-------------------|-----------------------|----------------------|-----------|-----|

Score 3

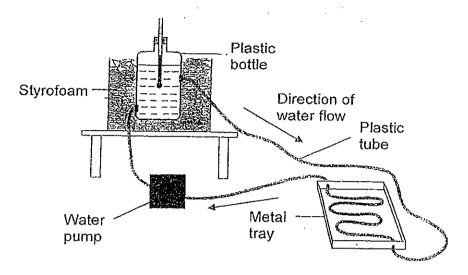
34. Study the diagram below.

Draw the light rays to show how light travels so that Cindy can see herself in the mirror.





35. The set-up below shows a model of a solar water heater. A water pump is used to circulate the water in the set-up.

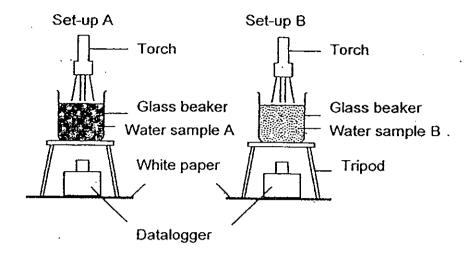


The plastic bottle and plastic tube are filled with cold water. The metal tray is left in the sun for 30 minutes while the plastic bottle is kept in the shade.

| a) | Explain how the water in the plastic bottle becomes hot after 30 minutes. [2] |
|----|--|
| | |
| | |
| b) | What is the purpose of putting styrofoam around the plastic bottle? [1] |
| | |
| ١ | lis friend suggests that he increases the number of coils on the tray without changing the length of the plastic tube to make the water heat up faster. Do you agree with his friend? Explain your answer. |

Score 4

36. Roger set up the experiment below. All the variables used were the same except for the clarity of the water. He shone a light through the water sample in each beaker and observed the amount of light that passed through with a datalogger.

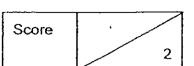


He recorded the amount of light detected in the table below.

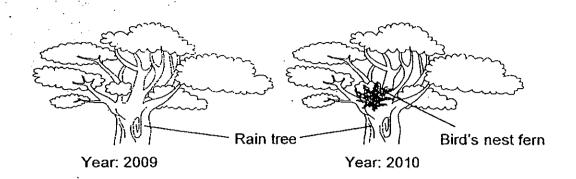
| | Amount of light detected (lux) |
|----------|--------------------------------|
| Set-up A | 75 |
| Set-up B | 15 |

a) What is the aim of his experiment?

- [1]
- b) Which water sample, A or B_r should he use to grow his water plants? Explain your answer. [1]



37. The diagrams below show a rain tree at two different times.



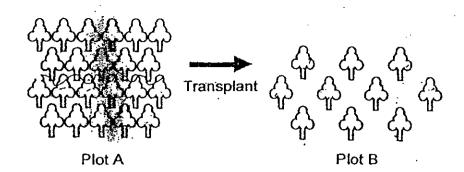
In the year 2010, a Bird's nest fern was found growing on the rain tree.

| a) How does the Bird's nest fern reproduce? | |
|---|-------------|
| b) Decribe how the Bird's nest fern got to the rain tree? | |
| | |

| c) Explain | why the Bird's nes | t fern has an | advantage if it gr | ows on the rain |
|------------|--------------------|---------------|--------------------|-----------------|
| tree. | | | | [1] |
| | | | | |

| Score | |
|-------|---|
| | 3 |

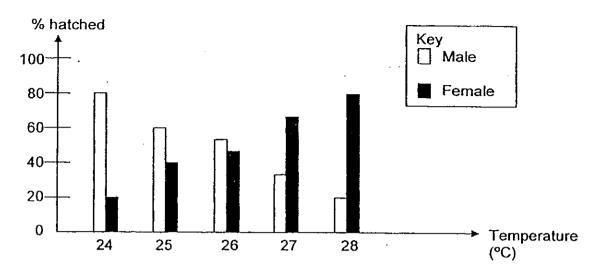
38. Charlene visited her uncle's farm. She saw her uncle transplanting some young mango trees to another part of the farm as shown below.



| a) | What would happen to the young mango trees if they were transplanted from Plot A to Plot B in two months? | not [1] |
|----|---|-------------|
| | | |
| b) | Explain your answer in (a). | _ [1] |
| | | |
| | | |

| Score | |
|-------|---|
| | 2 |

39. Tim studied the percentage of males and females hatched from the eggs of a certain species of crocodiles at different temperatures. His results are shown in the graph below.



| a) What is the relationship between the percentage of males hatched the temperature? | and [1] |
|--|------------|
| | |
| | |
| b) Based on results in the graph above, give a reason why this type of crocodile is not suitable to live in Singapore? | [1] |

| Score | |
|-------|---|
| | 2 |

40. Figure 1 and 2 show how gases are transported in the circulatory system of a tadpole and a human respectively.

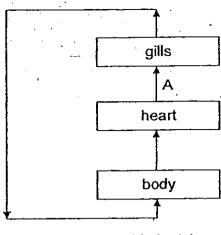


Figure 1 (Tadpole)

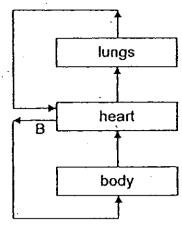


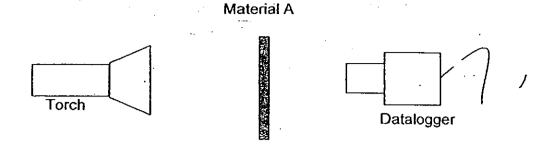
Figure 2 (Human)

| a) State one difference between the directi | on of flow of blood in a tadpole |
|---|----------------------------------|
| and in a human. | [1] |

| State one difference between the and B. | ne gases found in the blood flowing at A [1] |
|---|--|
| | |
| | |



41. Alvin conducted an experiment to measure the amount of light that can pass through six different materials. He used a datalogger to do so.



He recorded the results in the table below.



Based on the results given in the bar chart above, answer the following questions. Read the statements and tick in the appropriate boxes below.

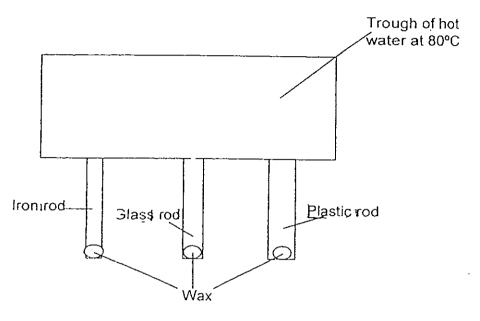
[3]

| Statements | True | False | Not possible to tell |
|---|------|-------|----------------------|
| Material C allows more light to pass through than Material F. | | | |
| Material A has a lighter shadow than Material B | | | |
| Material E is darker in colour than Material D | | | |
| Material A is able to partially block light. | | | |
| Material E could be a mirror. | * | | |
| Material B is opaque. | | | |

| Score | |
|-------|---|
| | 3 |

42. Carrie wanted to investigate if the time taken for heat to travel from one end of a rod to the other end would be affected by its thickness.

She used three rods of different thickness but of the same length. She put a ring of wax around one end of each rod, and then heated the other end of each rod as shown below.



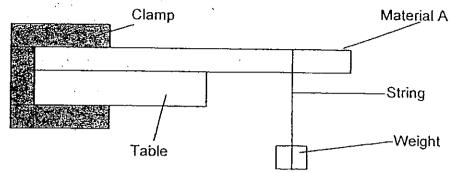
| What is the dependent variable in this experiment? | * | [1] |
|--|---|-----|
| | | |

| b) What would happen to the wax when one end of the rod was heate the shot water? Explaint your answer | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| · | | | | | | | | |
| | | | | | | | | |

| c) | Her classmates them? Explain yo | was not | a fair test. | Do you agr | ee with |
|----|---------------------------------|---------|--------------|------------|---------|
| | | | | | |
| | | | • | | |

| | |
|-------|------|
| Score | |
| | 4 |

43. Jeryl wanted to test the strength of two materials, A and B, with the setup below.

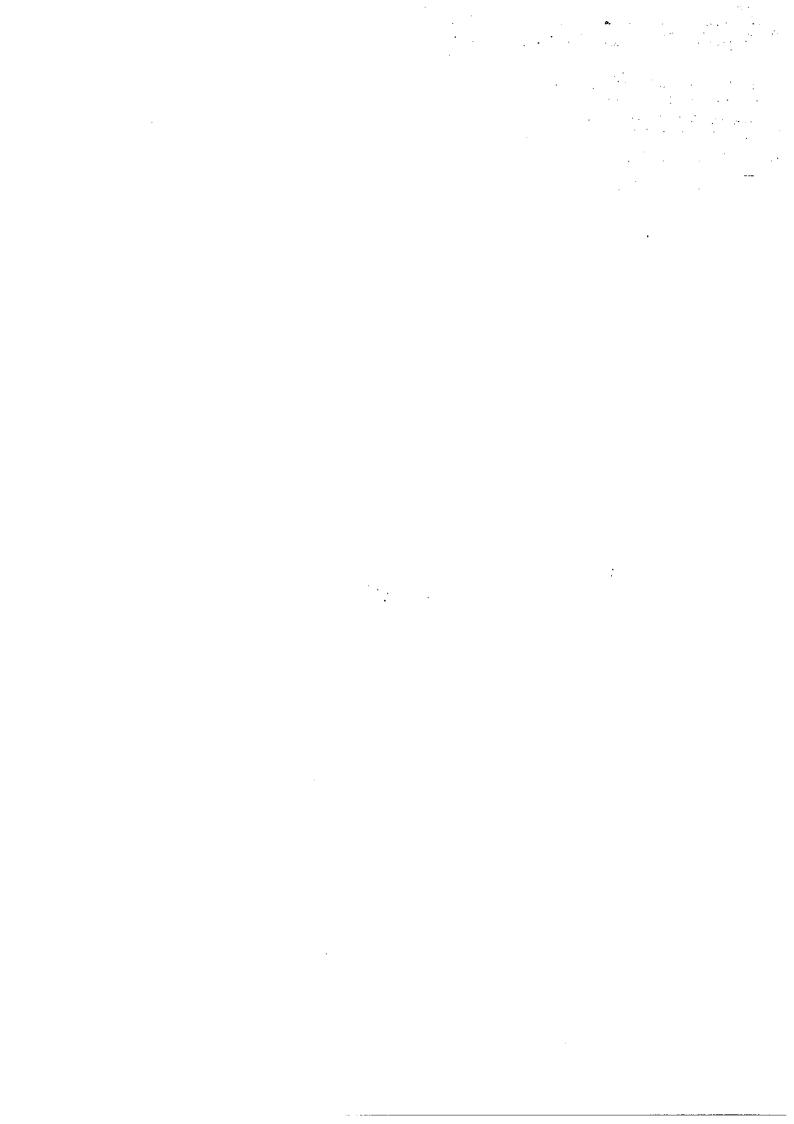


Weights were added until the material bent. He recorded his findings in the table below.

| Material | Weight hung till material bent (g) |
|----------|---------------------------------------|
| Α Α | 614 |
| В | 310 |

| - | | _ |
|----|--|--------------|
| b) | Jeryl wants to make a model aeroplane to compete in a maeroplane flving competition that requires the model aeroplane to in mediate the model aeroplane to in mediate the model aeroplane to in making aeroplane? Give a reason for your answer. | ştay nent |
| | | |

| | onduct the experiment. |
|----|---|
| | 2 similar balsam plants with 10 similar leaves each ·2 beakers 500 mt of water 100 mt of oil |
| a) | Ernest had some problems coming up with the steps to conduct experiment. Write down the steps for Ernest to allow him to conduct fair test. Number your steps. |
| | |
| | |
| | |
| ŧ | Based on his experiment, he found out that the plant with more leaves took in more water. Would such plants be able to survive in an environment with very little rainfall, for example the Sahara Desert? Give a reason for your answer. [1] |
| - | |
| | |
| | End of Paper |
| | |
| | Score |



ANSWER SHEET

EXAM PAPER 2012

SCHOOL: NAN HUA

SUBJECT: PRIMARY 5 SCIENCE

TERM : SA1

| | | , | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|----------|
| Q1 | Q2 | Q3 | _Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | 014 | 015 | 016 | 017 |
| 3 | 2 | 1 | 3 | 3 | 3 | 4 | i | 3 | 4 | 2 | 1 | 3 | 2 | 2 | 2 | |
| | | | | | | | | | | | | | | | L | <u> </u> |
| Q18 | Q19 | Q20 | Q21 | Q22 | Q23 | Q24 | Q25 | Q26 | 027 | Q28 | 029 | Q30 |] | | | |
| | 1 | 4 | -1 | 3 | 7 | 4 | 1 | 7 | 1 | 7 | 7 | 3 | 1 | | | |

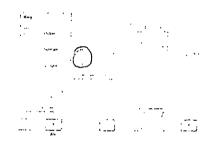
31)a)Clear water

b) The warm water in the pot will evaporate to form water vapour. The water vapour raises up to touch the plastic wrap ,the water vapour loses heat to the plastic wrap and condonse to form water droplets. The water droplets accumulate and dripped into the bowl.

c)He could heat up the water to 100°C.

32)a)One.

b)



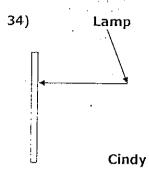
c)Ali grandfather pass the characteristic to his father and his father passed it to him.

Page 1 to 3

page 1

33)a)Eunice, May, James, Ali

b) When the pupils exhale, the exhaled air will occupy the space in the plastic bottle, pushing the water out of the plastic bottle. The one with the least amount of water in the bottle has the largest lung capacity.



35)a)The cold water will go through the plastic tube and gain heat from the metal tray and go through the water pump and at the same time the metal tray will gain heat from the sun and after 30 minute of repeating this process the water will hot.

b)The Styrofoam is a poor conductor of heat to reduce the heat loss of the heat water to the surrounding.

c)Yes. When the number coils on the tray are increase there is more contact surface between the tubes and the tray so the water in tubes will gain heat faster.

36)a)To find out if the clarity of water affects the amount of light that passes through it.

b)Water sample A. The fully submerge plant can still use the chlorophyll to tray light photosynthesis as light can pass through the water.

37)a)It reproduce by spores.

b)A spore another Bird Nest fern was carried by the wind to the brunch of the rain tree the new Bird's nest fern grew from the spore that landed on the rain tree.

c)The Bird's nest fern will get more sunlight compared to growing on the ground.

38)a)They will not grow healthily.

b)The young plants will be overcrowded and they would need to compete for space, water and sunlight.

a. 39) The Percentage of make hatched decrease as the temperature increase.

within

b. This type of chocodiles can only survive to a low range of temperature between 24°C-28°C however, the temperature range in singapore is higher which can reach as high as 32°C hence it is not suitable for this type of chocodile to live in.

- 38)a)The young mongo trees will not grow well.
 - b)The young plants would face the problem of overcrowding. The would complete for space, nutrients, water and sunlight.
 - 40)a)The flow of blood in the tad pole is in one direction but the flow of blood in human is two directions.
 - b)Blood at A is low in oxygen but blood at B is high in oxygen.

41)

| Statements | True | False | Not possible to tell |
|---|------|-------|----------------------|
| Material C allows more light to pass through than Material F. | / | | |
| Material A has a lighter shadow than Material B | | . 🗸 . | |
| Material E is darker in colour than Material 0 | | | |
| Material A is able to partially block light | | | i |
| Material E could be a mirror. | | . 🗸 | |
| Material B is opaque. | | •/ | 1 |

- 42)a)The time taken for the wax to melt.
- b)The wax would melt. The rod will gain heat from the hot water. The wax will gain heat from the rod and melt.
- c)Yes. In a fair test there should only be one independent variable which is the thickness of the rod. The materials of the rods were changed too and that can affect the result as well.
- 43)a)Material A.
- b)No. The model plane has to be made of a light material for it to be able to stay in the air the longest. A strong material may not necessarily be light.
- 44)a)1)Add 200ml of water into one beaker.
 - 2)Add 25ml.of oil into the beaker.
 - 3)Out the plant with 10 leaves in the same beaker.
 - 4)Repeat steps 1-2 for the second beaker.
 - 5) Remove 5 leaves from the other plant and place it in the second beaker.
 - 6) Record the amount of water left in both beakers everyday for 5 days.
- 7)The beaker with the lesser water shows that the plant has taken in more water.
- b)No. Plants with many leaves will not survive as they will not have enough water to taken in.

page 3

