



RED SWASTIKA SCHOOL

CA1

RED SWASTIKA SCHOOL

2004 CONTINUAL ASSESSMENT 1

SCIENCE

Name : _____ ()

Class : Primary 6/ _

Date : 4 Mar 2004

BOOKLET A

30 Questions

60 Marks

Duration of Paper : 1 hour 45 minutes

Note:

1. Do not open this Booklet until you are told to do so.
2. Questions 1 - 30 are to be done on the OAS provided.
3. Read carefully the instructions given at the beginning of each part of the Booklet.
4. Do not waste time. If a question is difficult for you, go on to the next one.
5. Check your answers thoroughly and make sure you attempt every question.

Section A: 30 X 2 = 60 marks

Choose the most appropriate answer and shade its number in the OAS provided.

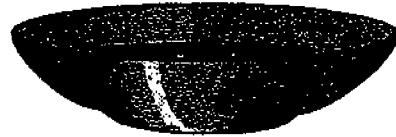
1. Which of the following was once alive?

1)



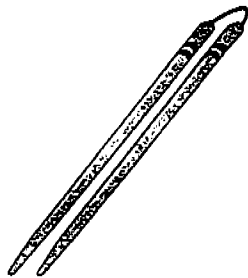
Stainless Steel Fork

2)



Plastic Plate

3)



Wooden chopstick

4)

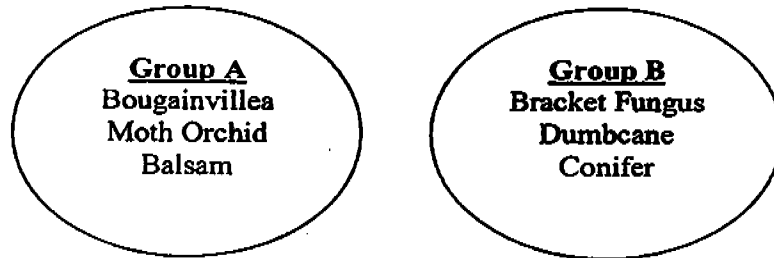


Porcelain Cup

2. Most birds have wings but not all birds can fly. _____ and _____ are birds that cannot fly.

- 1) Penguin, kingfisher
- 2) Emu, kiwi
- 3) Ostrich, sparrow
- 4) Eagle, turkey

3. Study the following groups of plants.



The plants are grouped according to A and B
Which grouping best describes the above data?

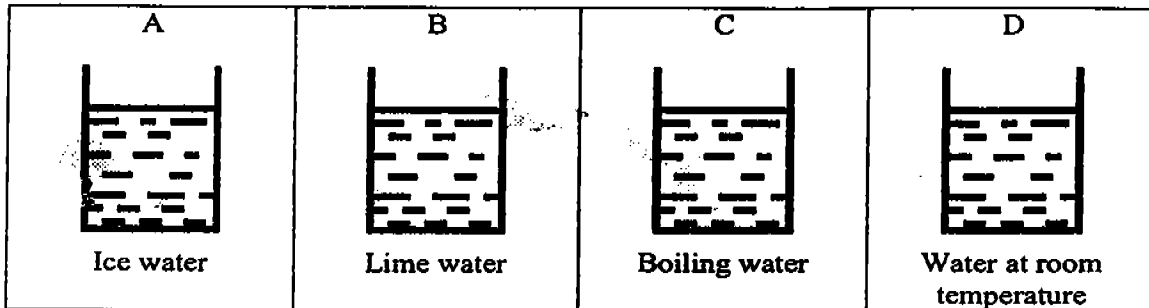
	Group A	Group B
1)	Live on land	Live on water
2)	Non-poisonous	Poisonous
3)	Reproduce by seeds	Reproduce by spores
4)	Flowering	Non-flowering

4. Which of the following statements about matter are true?

- A. All matter occupies space.
 B. All matter has mass.
 C. All matter has a fixed volume.
 D. All matter can be compressed.

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

5. Study the diagram below.



In which containers will evaporation take place?

- 1) A, B and C only
 - 2) A, C and D only
 - 3) B, C and D only
 - 4) A, B, C and D
6. Aquatic plants and animals in ponds can survive in water even when the temperature at the surface of the ponds drops below the freezing point of water. What is the main reason for this?
- 1) Aquatic plants take in sunlight.
 - 2) Aquatic plants take in nutrients.
 - 3) Water transforms from one state to another.
 - 4) Water below the surface of the pond does not freeze.
7. Which phase of the moon will appear the biggest?
- 1) Full Moon
 - 2) New Moon
 - 3) Waning Moon
 - 4) Waxing Moon

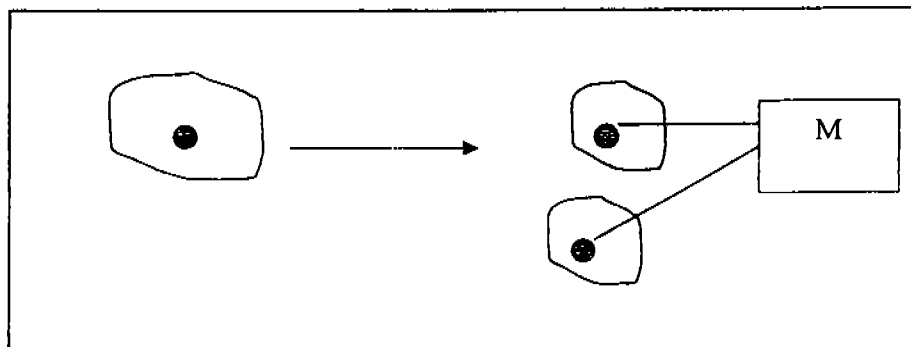
8. The reason that we are able to experience day and night is because the _____.

- 1) Earth revolves around the Sun
- 2) Moon revolves around the Earth
- 3) Moon rotates on its own axis
- 4) Earth rotates on its own axis

9. The _____ in ^{flowers} flower has/have similar function(s) as sperms in animals.

- 1) anther
- 2) ovules
- 3) pollen grains
- 4) stigma

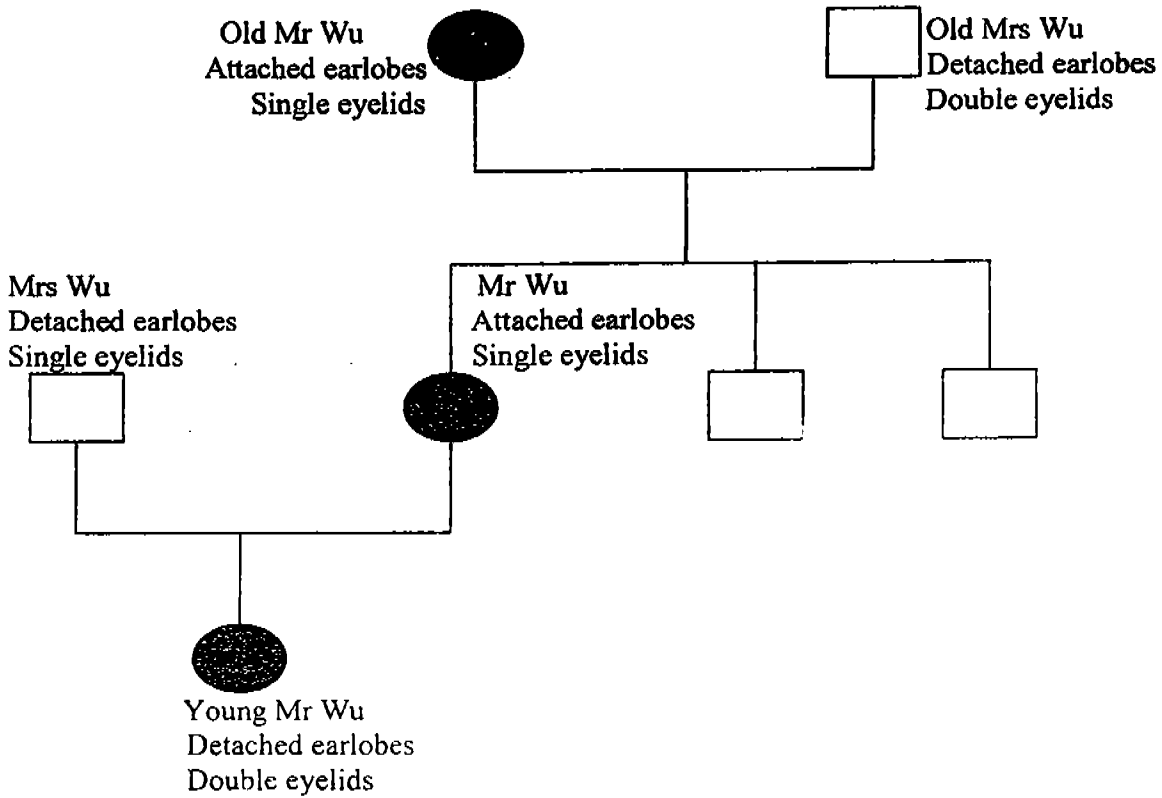
10. The diagram below shows a cell undergoing cell division.



What are cells "M" known as?

- 1) Half ^{cells} Cells
- 2) Twin cells
- 3) Daughter cells
- 4) Brother cells

11. Study the family tree below carefully.



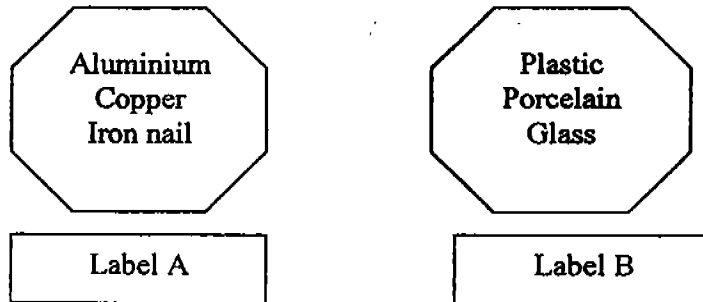
Young Mr Wu has double eyelids. From whom did he inherit this characteristic?

- 1) Old Mr Wu
- 2) Old Mrs Wu
- 3) Mr Wu
- 4) Mrs Wu

12. What is the similarity between a pigeon and a bee?

- 1) Both can fly.
- 2) Both can walk.
- 3) Both can hop.
- 4) Both can swim.

13. Jane groups the materials listed below into 2 groups. What are the most suitable headings for labels A and B respectively?

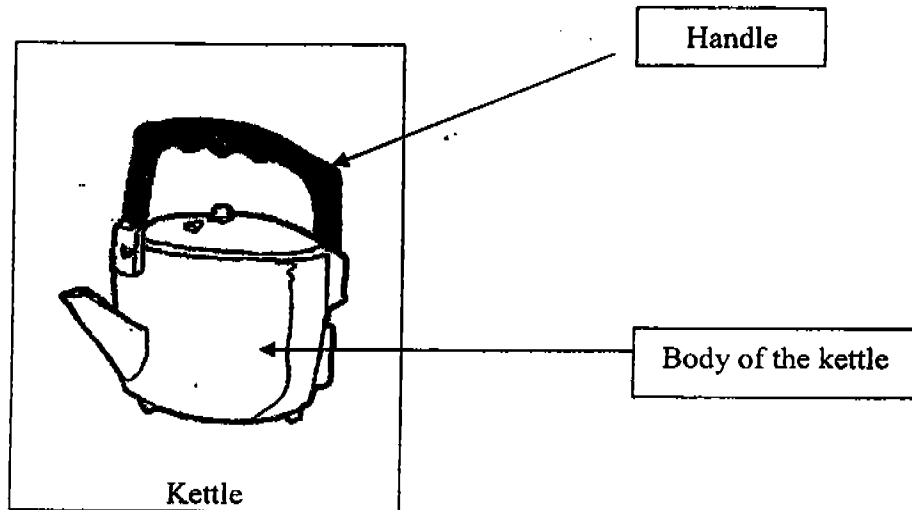


- 1) Electrical conductors and Electrical insulators
 - 2) Flexible and Non-flexible
 - 3) Transparent and Translucent
 - 4) Magnetic and Non magnetic
14. The following table classifies the life cycles of various animals. Which one of the following classification is incorrect?

	3 stages	4 stages
1)	Spider Grasshopper	Moth
2)	Grasshopper Spider	Cockroach
3)	Frog	Sweet potato weevil
4)	Goldfish	Fruit fly

15. Jane wants to pour some soup for her father who is taking his shower. Which bowl should Jane use so that her father will get a bowl of hot soup even after his long shower?
- 1) A styrofoam bowl
 - 2) A silver bowl
 - 3) An iron bowl
 - 4) A glass bowl

16.



The body of the kettle is made of _____ because it is a good conductor of heat. The handle is made of _____ because it does not conduct heat easily.

- 1) steel; plastic
- 2) copper; steel
- 3) aluminium; iron
- 4) iron; copper

17. Algae convert A energy to B energy during photosynthesis.

A	B
1) potential	heat
2) potential	light
3) light	heat
4) light	chemical

18. The pacemaker is a device that makes sure the heart beats regularly. It makes use of _____ energy that triggers the heart to beat in a regular rhythm.

- 1) light
- 2) sound
- 3) electrical
- 4) movement

19. Chemical energy is converted to heat energy when a/an _____.

- 1) watch is wound
- 2) electric fire stove is switched on.
- 3) neon light is switched on.
- 4) match is burnt.

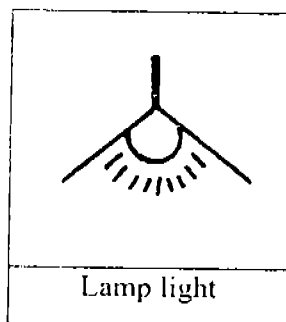
20. Which of the following activity has a different form of energy from the rest?

- 1) Waterfall.
- 2) Water jet from a hose
- 3) Rotating windmill
- 4) Compressed air in a gas cylinder

21. Mrs Johnson uses a hair dryer to dry her hair. Which one of the following describes the energy changes that takes place when the hair dryer is being used?

	Before usage	Useful energy	Wasted energy
1)	Electrical	Sound	Heat
2)	Electrical	Heat	Sound
3)	Kinetic	Heat	Sound
4)	Heat	Sound	Electrical

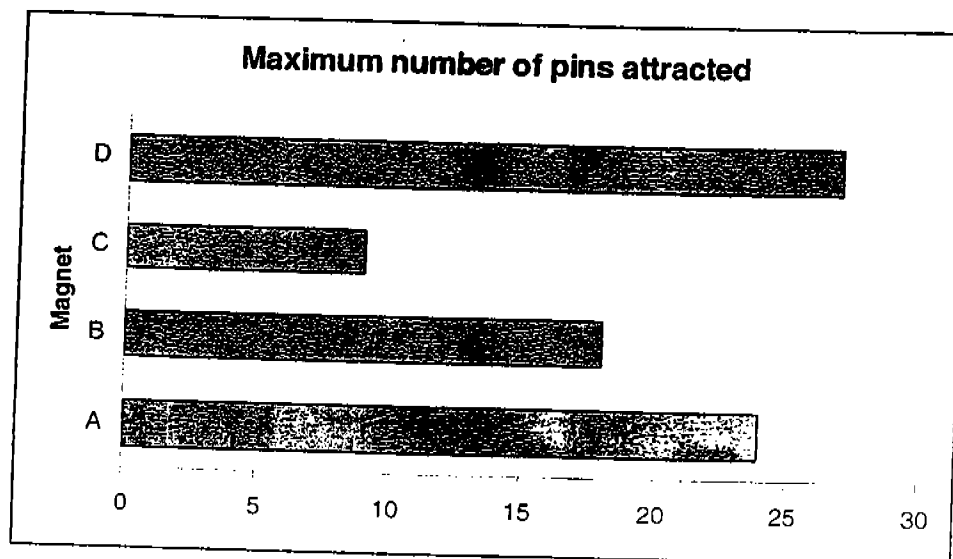
22. One source of energy is converted to light energy by the lamp light. Which of the following is the source of energy?



- 1) Chemical energy
- 2) Electrical energy
- 3) Kinetic energy
- 4) Potential energy

23. There are various sources of energy present in our environment. Which of the following is not one of the sources of energy ?
- 1) Air
 - 2) Wind
 - 3) Sun
 - 4) Running Water
24. In a hydroelectric power station, the energy is converted from _____.
- | | | | | |
|---------------------|--------|----------------|--------|-------------------|
| 1) Kinetic energy | —————> | Sound energy | —————> | Heat energy |
| 2) Kinetic energy | —————> | Wind energy | —————> | Electrical energy |
| 3) Potential energy | —————> | Sound energy | —————> | Heat energy |
| 4) Potential energy | —————> | Kinetic energy | —————> | Electrical energy |
25. When two cars collide, there will be a change in_____.
- 1) the speed and shape of the cars
 - 2) the speed and magnetic strength of the cars.
 - 3) the direction and magnetic strength of the cars.
 - 4) the shape and frictional force of the cars.
26. Which activity does not make use of a pushing force?
- 1) Pounding chilli in a mortar
 - 2) Pressing the button on a doorbell
 - 3) Kicking a rolling ball
 - 4) Carrying an object
27. Which one of the following statements about gravity and friction is correct?
- 1) Gravity can be seen but not friction.
 - 2) Gravity is useful but friction is not.
 - 3) Friction produces heat but gravity does not.
 - 4) Friction is a force but gravity is not.

28. Jeremiah tried to attract as many pins as he could with the 4 different magnets, A, B, C and D. He then drew the chart below to show the maximum number of pins each individual magnet was able to attract.



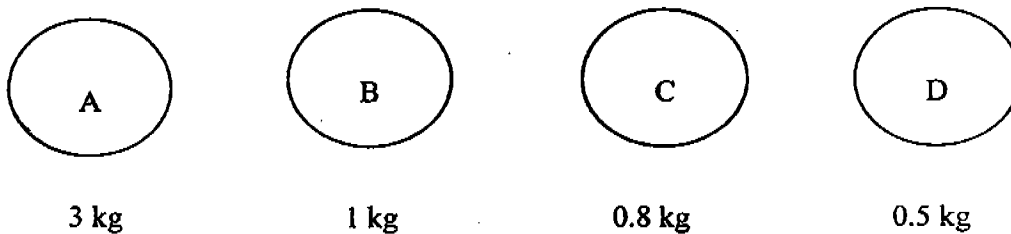
From his findings, he made the following conclusions.

- A) Magnet A was stronger than Magnet C.
- B) Magnet D was stronger than Magnet B
- C) Magnet B was longer than Magnet C
- D) Magnet C was twice stronger than Magnet A

Which of his conclusions were correct?

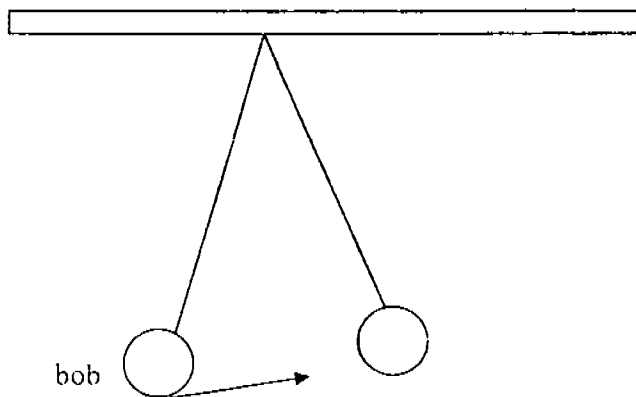
- 1) A and C
- 2) A and B
- 3) B and D
- 4) A and D

29. Four different balls of the same size but different weights are dropped from the same height onto the sand as shown in the diagram.



Which ball will make the deepest impact in the sand?

- 1) A
 - 2) B
 - 3) C
 - 4) D
30. A bob is hung from a string as shown below.



June decides to find out the number of swings a bob makes in a minute.
What variables should remain constant throughout the experiment?

- 1) The colour and weight of the bob.
- 2) The weight and the angle of the bob.
- 3) The length of string and the weight of bob.
- 4) The length of string and the size of the bob.



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2004 CONTINUAL EXAMINATION 1

SCIENCE

Name : _____ ()

Class : Primary 6/ _

Date : 4 March 2004

BOOKLET B

16 Questions

40 marks

MARKS

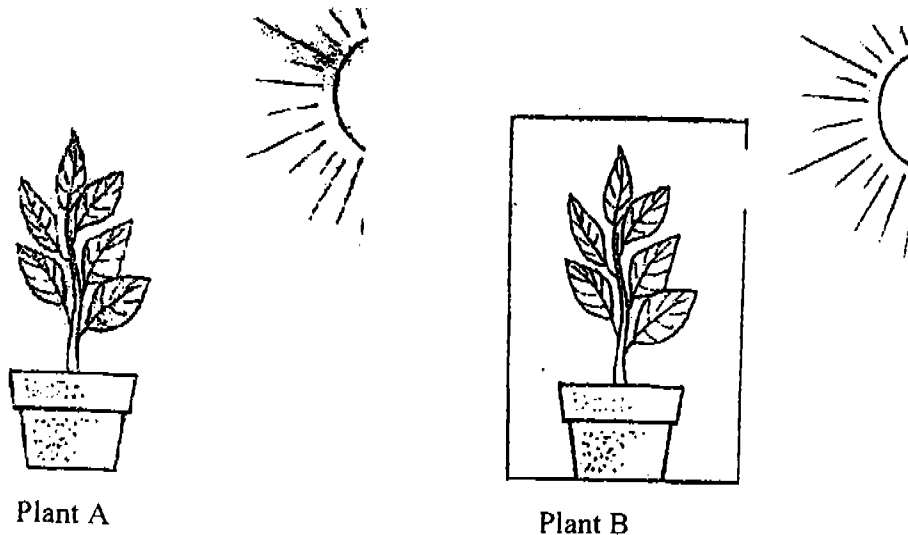
	OBTAINED	POSSIBLE
BOOKLET A		60
BOOKLET B		40
TOTAL		100

Parent's Signature : _____

Section B: (16 questions- 40 marks)

Answer all the questions in the space provided.

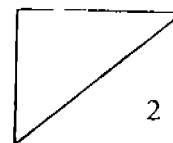
31. Jenny puts two pots of plants, Plant A and Plant B, in a sunny place. She puts one of the plants in a box and cuts a small hole on one side of the box.



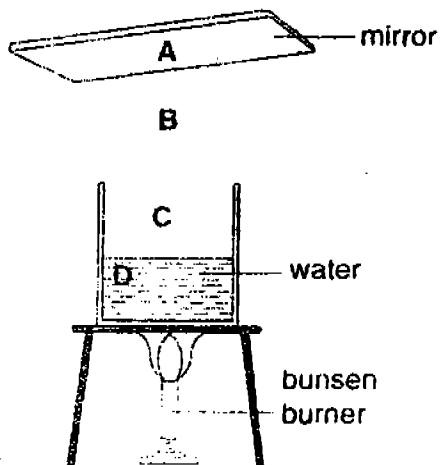
Two weeks later, she observes that Plant B is growing towards the small hole.
(From the observation, she achieves the objective of this experiment.)

- a) What has Jenny found out about Plant B? (1 m)

- b) What must she do to ensure that Plant B does not die? (1 m)



32. Siti sets up the experiment shown below. A mirror is placed above a beaker of boiling water.



- a) Which positions in the above set-up are the most likely to have the same temperature? (1m)

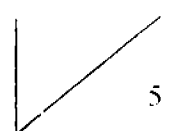
- b) Name the processes that are taking place at A and C respectively. (1m)

A- _____ C- _____

- c) What can Siti expect to see on the surface of the mirror? (1m)

33. a) What are clouds made up of? (1m)

- b) State one main reason why the water cycle is so important to Man. (1m)



34. State two differences between the Moon and the Earth. (2 m)

(i) _____

(ii) _____

35. Jane uses an apparatus in the laboratory to differentiate two cell specimens. She needs to label the cells as plant and animal cell respectively.

a) What apparatus should Jane use to study the two cells? (1m)

b) List one feature that will help her to differentiate between the plant and animal cell. (1m)

36. Fill in each blank with a suitable word. (2m)

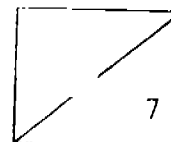
Classification is a process whereby things are arranged according to their

_____ and _____. It is mostly based on their

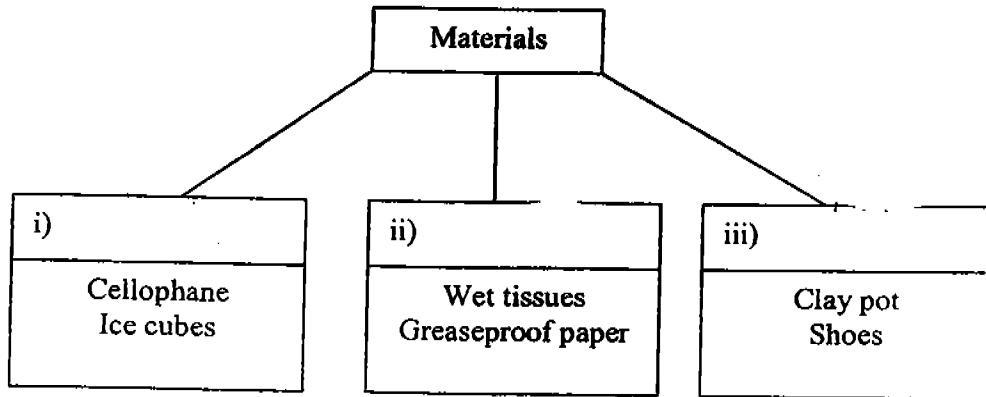
_____ ^{such} as colour or texture. We can present our classification in

the form of a _____ or chart.

37. ^{State} List an advantage of using energy from the Sun as compared to other sources of energy. (1m)



38. In the chart below, the objects are classified according to certain properties.
 a) Choose from the list below and fill them in as appropriate headings in the chart above. (3m)
below

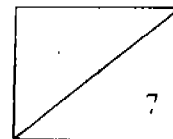


- Opaque Transparent Electrical conductors
 Electrical insulators Translucent

- b) Give **one** possible reason why frosted glass instead of normal glass, is used for bathroom windows? (1m)

39. Identify the type of force that is taking place in each situation. (3m)

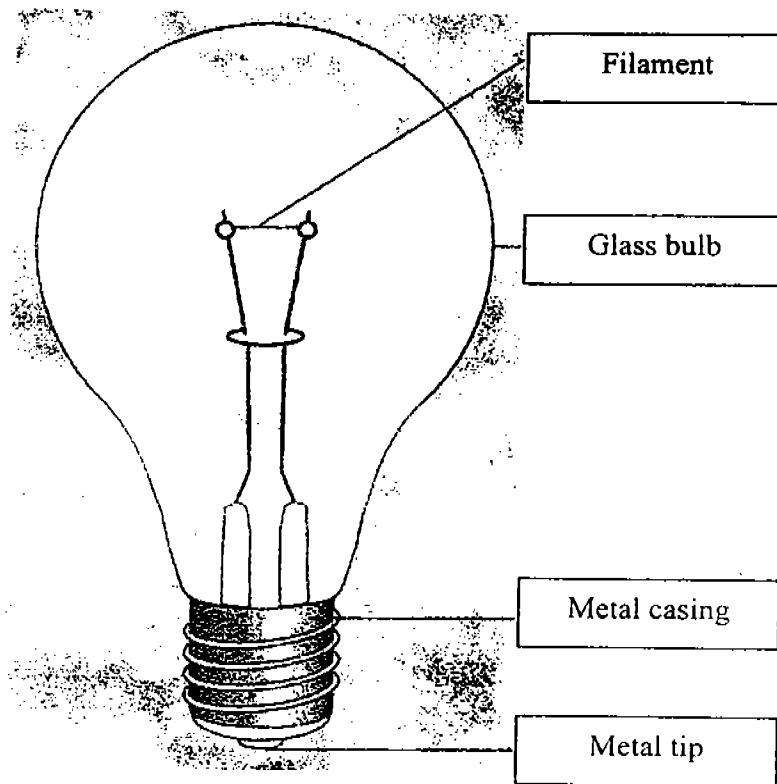
Situation	Force
a) The Metal bars repelling each other.	
b) A durian will drop from a tree to the ground. <i>dropping</i>	
c) A bicycle brake gripping the wheel.	



40. Fill in each blank with a suitable word. (2m)

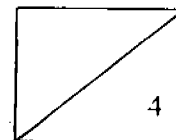
Coal, oil and natural gas are called _____. They were formed from the remains of _____ and _____ that died millions of years ago.

41. Each of the labeled parts in the bulb shown below is either an electrical conductor or a non-conductor.



Classify the parts of the bulb in the following table. (2 m)

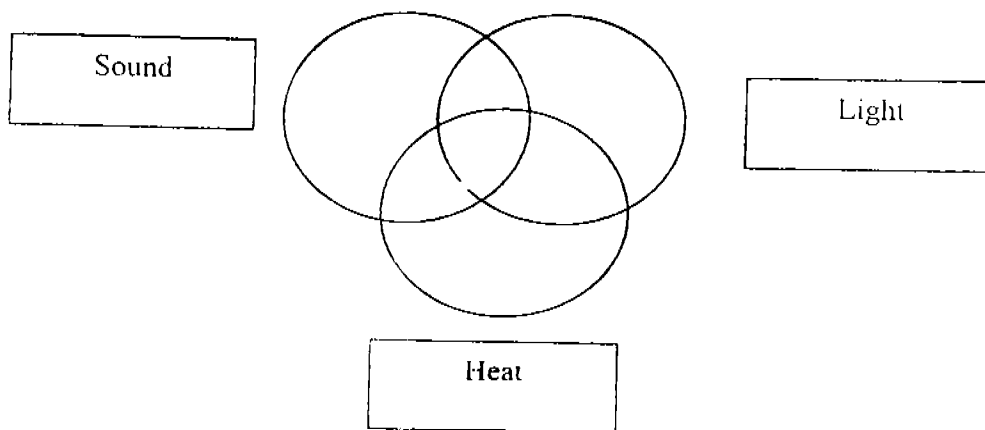
Non- conductor	Conductor



42. Fill in the blanks with **True** or **False** for the energy conversions involved in each item. (2m)

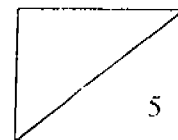
Item	Statements	True/False
a) Cake mixer	Electrical energy is converted to movement energy.	
b) Oven	Electrical energy is converted to heat energy.	
c) Tambourine	Kinetic energy is converted into sound energy.	
d) Magnifying glass	Heat energy is converted to light energy.	

43. The Venn diagram below shows different forms of energy.

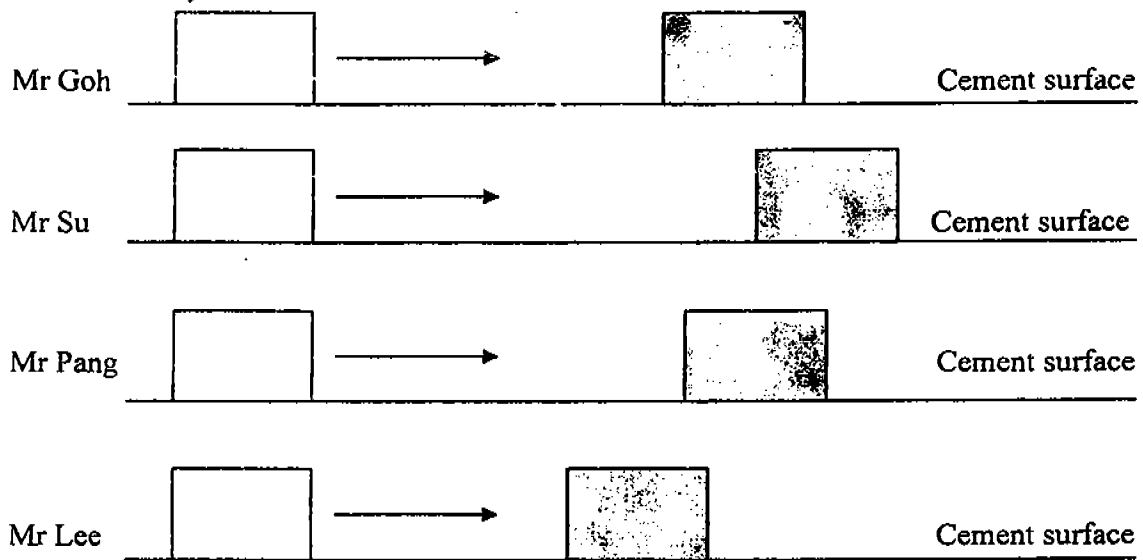


Write the letter "X", "Y" and "Z" in the correct region of the Venn diagram above. (3 m)

X	Television
Y	Torch light
Z	Musical Box



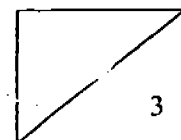
44. Four men helped to push the boxes to a new position in the storeroom. They all started at the same position. After 10 minutes, the distances of every individual were shown in the diagram given.



- a) Who did the most work among the four men? (1m)

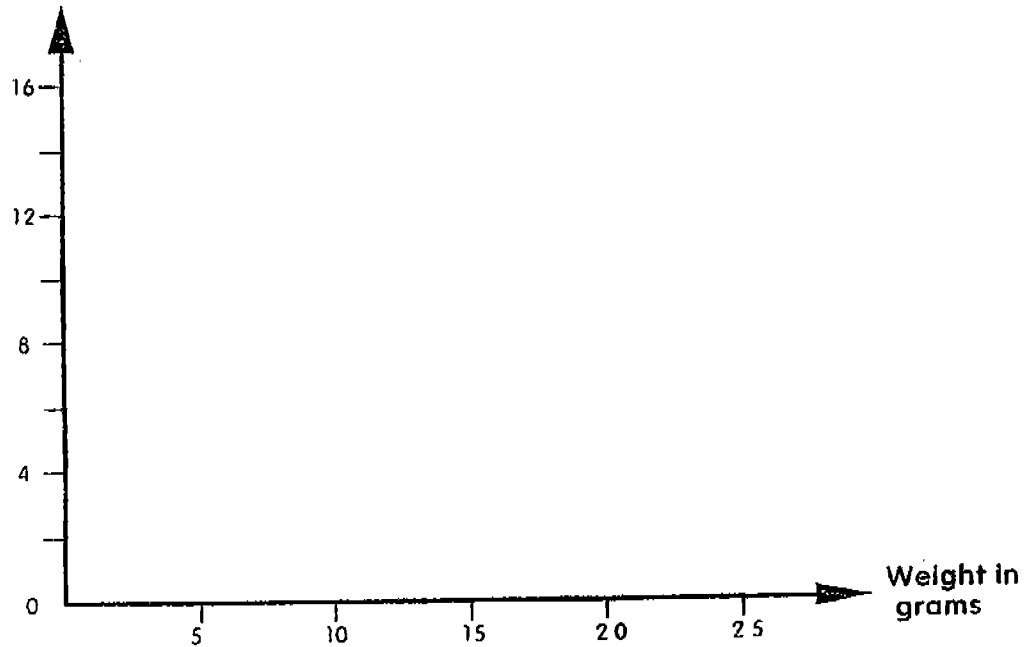
- b) What is a lubricant? (1m)

- c) Describe one alternative besides lubricants that can be used to reduce the amount of force needed to move the box. (1m)



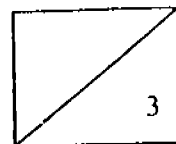
45. The graph below shows the length of a spring as weights are added to it.

Length of
spring in cm



- a) What is the length of the spring without any weights on it? (1 m)

- b) What would the length of the spring be if 30 grams were added to it? (2 m)



46. Most organisms eat more than one type of food. The classification shows some types of food the animals feed on.

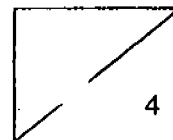
Mynah	Python	Centipede	Hippopotamus
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- a) Place the animals listed in the box above in the appropriate blanks in the table below. (3 m)

Animals	i)	ii)	iii)
Foods that are eaten by the animals	Grasshopper	Termite	Rat
	Bread	Slug	Chicken
	Grain	Ant	Bird

- b) How else can we classify living things besides their ~~type~~ of nutrition? (1m)

~End of paper~



RED SWASTIKA SCHOOL
2004 CONTINUAL EXAMINATION 1
SCIENCE
PRIMARY SIX

CA1

- 1) 3 27) 3
2) 2 28) 2
3) 4 29) 1
4) 1 30) 3
5) 4 31) a) Jenny found out that plants would grow towards
 the sun to have more sunlight.
6) 4 b) She must water it.
7) 1 32) a) C and B
8) 4 b) A - Condensation C - Evaporation
9) 3 c) Water droplets
10) 3 33) a) Water droplets
11) 2 b) So that we could have a rich supply of water.
12) 1 34) i) The Earth has living thing but the Moon does
 not.
13) 1 ii) The Moon revolves around a planet but the
14) 2 Earth revolves around the sun.
15) 1 35) a) Microscope
16) 1 b) A plant have chloroplast but a animal cell
 does not have chloroplast.
17) 4 36) Similarities differences
18) 3 properties
19) 4 table
20) 3 37) Free
21) 2 38) i) transparent ii) translucent iii) opaque
22) 2 b) It is translucent.
23) 1 39) a) Magnetic
24) 4 b) Gravity
25) 1 c) Friction
26) 4

40) fossil fuel

animals plants

41) Glass bulb Filament

Metal casing

Metal Tip

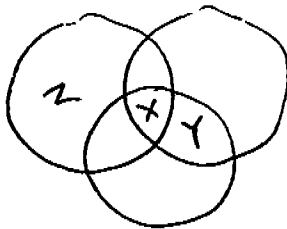
42) a) True

b) True

c) True

d) False

43)



44) a) Mr Su

b) Lubricant is oil, grease and reduce friction.

c) Ball bearings

45) a) 6 cm

b) 18 cm

46) i) mynah ii) Centipede iii) python

b) Their movement and body form.