NAME :	· (.)
CLASS:	

METHODIST GIRLS' SCHOOL (PRIMARY)

CONTINUAL ASSESSMENT 1 (2004)

PRIMARY SIX

SCIENCE '

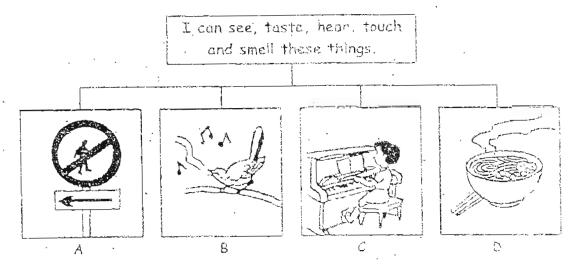
SECTION	MARKS
A	/20
æ	
TOTAL	

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

SECTION A (20 marks)

For each question from I to 20, four options are given. One of them is the correct answer. Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

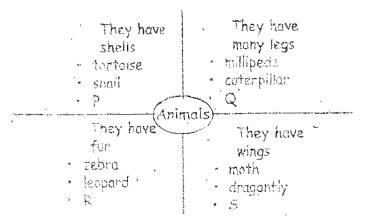
1. Below is a classification chart. Study it carefully.



Which one of the items, A, B, C or D requires the use of your sight, hearing and touch at the same time?

- 1. A
- 2. B
- 3. C
- 4. D
- 2. Which of the following forces can act on any object at a distance?
 - 1. Magnetic force
 - 2. Frictional force
 - Elastic spring force
 - 4. Gravitational force
- 3. Which of the following statements about forces is true?
 - 1. Magnetic force can be seen.
 - 2. A force can change the mass of an object.
 - 3. Friction exists when we hold a cup in our hand.
 - 4. Gravitational force increases with increasing distance from the centre of the earth.

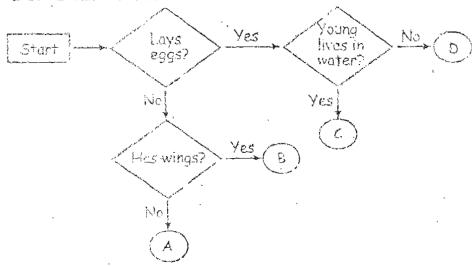
4. You are given a shart below. Study it carefully.



Which of the following represent the animals P, Q, R and S?

	3	Q	R	5
1.	shellfish	earthworth	lion	cocktoach
2.	turtie	boe	snake	13qqodszerg
3.	crab	spider	deer	2.0.1
4.	OFENIL	centipede	bear	butterfly

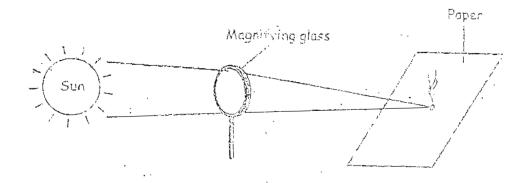
5. Below is a flow obart of the lives of some animals.



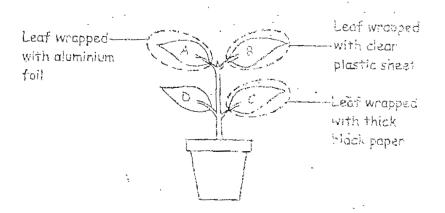
Which one of the following animals could be placed at C?

- 1. Moth
- 2. Tead
- 3 Chicken!
- 4. Mealworm beetle >

6. In the experiment shown below, the magnifying glass converts ______ energy to _____ energy.



- 1. heat, light
- 2. light, heat
- 3. solar, wind
- 4. light, electrical
- 7. A potted plant is put under sunlight and watered every day. Three leaves are wrapped with different materials. Holes are pierced in all of them for air to enter.

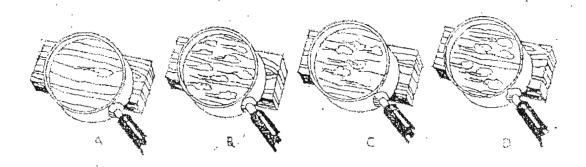


Which of the leaffleaves can make food?

- I. Donly
- 2. A and Conly
- 3. B and D only
- 4. A and D only

- 8. Which objects in the following list can reflect light well?
 - A. Charcoal
 - B: Steel spoons
 - C: Dark shelves
 - D: Aluminium toli
 - 1. A and B only
 - 2. B and C only.
 - 3. Cand Donly
 - 4. H and D only
- 9. The campline gets its energy from the firewood that burns. The energy found in the firewood can be traced back to the ______.
 - I. at
 - 2. 533
 - 3, earth
 - 4. forest
- 10. Jane subbad cotton wool over four pieces of wood with different types of surfaces.

 By looking at the pictures below, what is the arrangement of the pieces of wood from the roughest to the suppothest?



- 1. A.C.D.B
- 2. B, C, D, A
- 3. . C. A, D, B
- 4. 8, D, C. A

11. You are shown the picture below. Why are many substances such as beer and oil

packed in barrels?

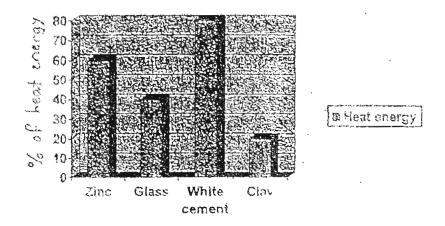


- 1. Barrels can hold a lot of substances.
- 2. Barrels are made from cheap materials which are easily available.
- 3. Barrels are bad conductors of heat which keep the substances inside cool.
- 4. Barrels are easy to transport as they can be rolled along the ground with minimum contact.
- 12. In the table below, which of the characteristics are true of insects?

	May or may not have wings	Lay eggs	Have 6 legs	Have 3 body parts	3 or 4 stages in their life cycles
1.	7	V	V	X	V
2	V	V.	¥	¥	X I
3.	X .	V	7	V	N.
4.	Ý	V	``	1	X

- 15. A fruit is dispersed by water. Which of the following statements about it is definitely true?
 - A: It is small-
 - B: It is edible
 - C: It has a fibrous hosk
 - D: It is produced by the parent plant
 - I. A and B
 - 2. A and C
 - 3. B and D
 - 4. C and D

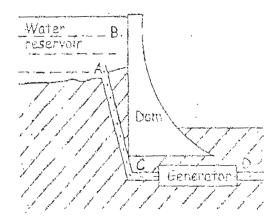
14. The chart below shows the percentage of heat energy reflected by different materials.



What should a house owner choose as a roof covering in order to keep his house cool in the tropics?

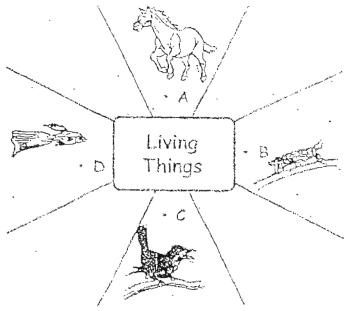
- 1. Zino
- Z. Clay
- 3 Glass
- 4. White coment
- 15. The life cycle of a cockroach is different from that of a butterfly. Which of the following statements are <u>correct?</u>
 - A: The young cockroach resembles the parent but not the young of the butterfly.
 - P: The young cockroach has wings but not the young of the butterfly.
 - C: The life cycle of a cockroach has three stages but the life cycle of a butterfly bas four stages.
 - A and B ordy
 - 2. A and Confy
 - 3. Band Conty
 - 4. A, B and C
- 16 Which of the following action/s produce/s heat?
 - A: Purping a piece of cardboard
 - B: Rubbing an ice cube against the table
 - C: Connecting a copper wire to the ends of a battery
 - (Book '
 - 2. A and Coply
 - 3. 3 and Conly
 - 4 A. Band C

17. The diagram shows part of a hydroclectric power station. At which point does water have most potential energy?



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

18. You are given a classification chart below.



. Which one of the following could A. B, C and D be?

	A	B	C	D
1.	Lion	Toạđ	KIWA.	Goldfish
2.	Bear .	Cockreach	Mynah	Swordail
3.	Tiger	Dragoufly	Turkey	Platypus
4.	Elephant	Spider	Bec	Teanole

10. Sally planted 4 green bean seeds under the conditions described below.

Seed A

- · płaced in a very derk room
- · watered every day
- ithere is wanteth
- · there is air

Seed C

- placed in a pot fully wropped in a black plastic bay
- · watered every day
- . there is warmth
- there is air because the plastic bag is planted with holes.

Seed B .

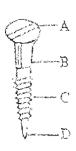
- placed near the window
- · watered every day
- there is warmth
- · there is air

Seed D

- · placed near the window
- · not watered every day
- · there is warmth .
- there is air

Which of the seeds will not grow into a plant?

- 1. A. B and Conly
- 2. B, C and D only
- 3. A. Cand Donly
- 4. A, B, C and D
- At which of the points, A, B, C or D, of the screw is the force greatest when it is being driven into a piece of wood?

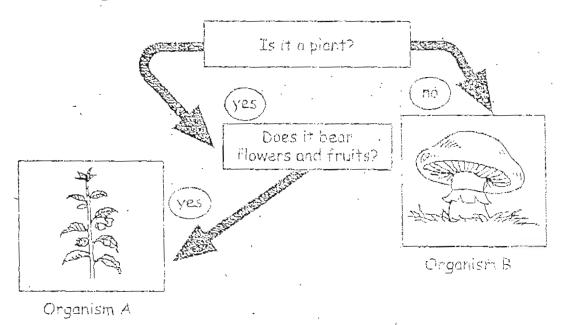


- . A
- 2. B
- 3. C
- ÷. I

SECTION B (30 marks)

Write your answers to questions 21 to 30.

21. You are given a flow-chart as shown below.



- a. In what way is Organism A different from Organism B? (1 m)
- b. How does Organism A reproduce? (1 a)
- c. Name another organism which belongs to the same group as Organism B. (1m)

22. The table below shows how some fruits are grouped.

PI	ants	
Group A	Group B	
Water melon	Mango	
Papaya	Rambutan	

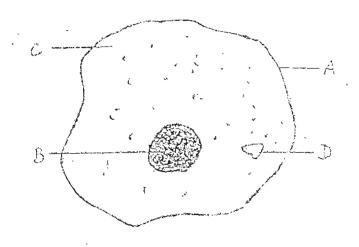
- a. Write 'peach' and 'guava' in the table above according to the correct classification (1 m)
- b. How are the fruits classified in part (a)? (1 m)

o. What gas is required by the plant in photosynthesis? (1 m)

d. Name two things that are part of the leaves of a plant that help it to make food. (I m)

(ii)

23. Below is a diagram of the animal cell.



a.	Label the parts A	A, B, C	and D	of the cell in	the biznks below.	(2 ta)
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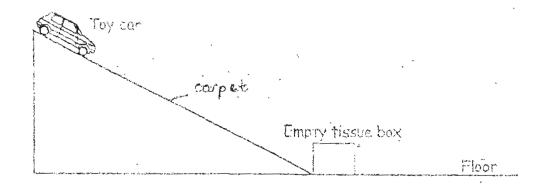
A:		
	The same and the same of the same and the sa	A Lame

b. What are the main functions of the parts A and B mendoned in (a)? (2 m)

Function of the parts:

B: _______

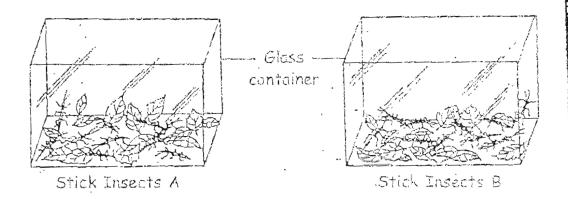
24. Ali sets up an experiment as shown below.



a. What force's is/ere acting on the toy car as it comes down the slope? (2 m)

b. As the toy can moved downwards, it pushed the empty tissue box a few centimetres away. Explain why the tissue box steps moving. (1 m)

25. An experiment was carried out by a botanist to understand the type of leaves that stick insects eat. He used 2 types of stick insects and 3 types of leaves. He named them Stick Insects A and Stick Insects B. He counted 10 stick insects for each type and placed them in 2 glass containers as shown below.

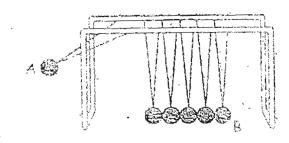


The number of the 3 types of leaves eaten by Stick Insects A and B are counted and recorded in the table below.

	Nu	Number of leaves exten		
Glass container with	Lea(P	Lear Q	Leaf R	
10 Stick Insexus A	130	5	-3	
10 Stick Insects R]5	0	28	

- a. Name one condition that the bosonist must observe in order to make it a fair test. (1 m)
- b. Two Stick Insects A died after eating a few leaves. Which type of leaves are these? (1 m)
- c. Give a reason for your answer in (b). (1 m)

- 26. In cold countries, we wear woollen clothings to keep us _____. The woollen materials and air are ______ center ctors of heat. They help to ______ down heat loss from our bodies to the cold surroundings, thus keeping us warm. (2 m)
- 27. The object below is called Newton's cradle. Ball A is raised and then released.



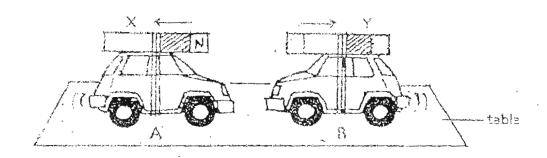
- a. Name the energy possessed by Ball A as shown in the illustration above. (1 m)
- b. What are the energy conversions that take place when Ball A strikes the next ball? (2 m)
- c. Newton's cradle illustrated a simple truth about energy. What is it? (1 m)

28. In the experiment below, an iron sheet is placed between a magnet and a suspended paper clip. Paper clip -Iron sheet. Magnet. What will happen to the paper clip when the magnet is dragged along the from a. sheet? (1 m) Explain your answer in (a), (1 m) ь. If the iren sheet is new replaced by a plastic sheet, what would you observe c. when the magnet is dragged along the plastic sheet? (1 m)

- 29 Henry placks all the leaves on the balsam plant in his garden
 - a. What will most likely happen to the balsam plant? Why?(1 m)

b Name one function of the stem. (I m)

30. John sets up an experiment with 2 toy cars as shown below.



- a. The two my cars are seen to move away from each other. What kind of force do they possess? (1 m)
- b. Label the two poles of Magnet Y. (1 m)



- 1) 3 21) a) It is fungi 2) 4 b) It reproduces by seed. 3) 3. c) Toadstool. 4) 4 22) a) Guava Peach 5) 2 b) The fruits in Group A contains a lot of seeds while the fruit an Group B contains only one 6) 2 seed. 7) 3 c) Carbon dioxide 8) 4 d) i) stomata 30) a) Magnetic force of repulsion. 9) 2 ii) Chlorophyll 5) N 10) 4 23) a) A : Cell membrane 11) 4 B : Nucleus 12) 2 C : Cytoplasm 13) 4 D : Vacuoles 14) 4 b) A : It is semi-permeable and allows certain materials in and out of the cell, 15) 2 B : It controls all activities in the cell and 16) 4 contains genetic information that are passed down one generation to another. 17) 2 24) a) Gravitational force and Printional force. 18) 2 b) The frictional force between the floor and the tissue box opposes forward motion and 19) 3 causes it to stop moving. 20) 4 25) a) The Length of time must be the same. b) Leaf 0 c) Leaf Q are poisonous 26) warm gir poor
 - 27) a) Potential energy.
 - b) Potential energy --- kinetic energy ---- sound energy
 - c) Energy can be converted one form to another.
 - 28) a) Nothing will happen.
 - b) Magnetism force cannot pass through aron, thus nothing will happen.
 - c) The paper clip will be attracted to the magnet and will 29) a) It will die. It has no leaves to make food for the plant.
 - b) It holds the branches and leaves upright so the leaves can get maximum sunlight. 30) see above