



SK TAMAN PANTAI SEPANG PUTRA
43950, SUNGAI PELEK
SELANGOR

NAMA MURID : _____

KELAS : YEAR 5

UJIAN PERTENGAHAN SEMESTER 2 2008

MATAPELAJARAN

SCIENCE

JANGAN BUKA KERTAS SOALAN SEHINGGA DIBERITAHU.
JAWAB SEMUA SOALAN.

MARKAH:

DISEMAK OLEH :

.....
(TANDATANGAN IBU BAPA / PENJAGA)

Section A; Objective Questions.

Every questions is followed by four options A , B , C and D. Choose the correct answer.

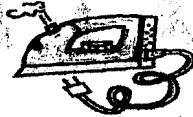
1. What is the main source of energy?

- A Fuel
- B Food
- C The sun
- D Batteries

2. Which of the following is non-renewable energy?

- A Coal
- B Biomass
- C Solar
- D Wind

3.



Which of the following has the same transformation of energy as shown in the picture above?

- A An electric bell
- B A ceiling fan
- C A bread toaster
- D A calculator

4. Lim switches on the electric oven in the kitchen.

Which of the following shows the correct transformation of energy?

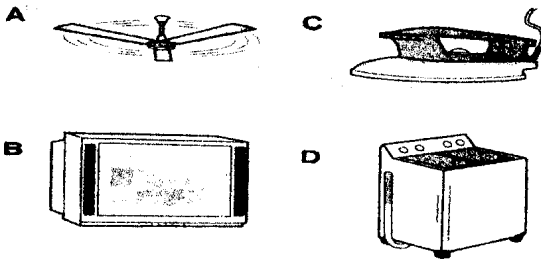
- A Potential energy → heat energy
- B Electrical energy → kinetic energy
- C Potential energy → heat energy + light energy
- D Electrical energy → heat energy + light energy

5. P - biomass
 Q - wind
 R - natural gas
 S - solar

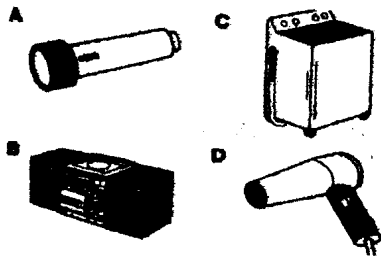
P, Q, R and S shows the sources of energy. Which are the sources of renewable energy ?

- A P and Q only
 B Q, R and S only
 C P, Q and S only
 D P, Q, R and S only

6. Which of the following appliances can change electrical energy into heat energy ?



7. Which of the following appliances changes electrical energy into kinetic and sound energy?



8. Which of the following is a source of energy?

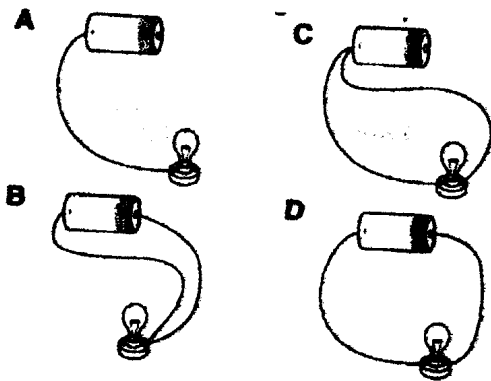
- I Fuel
 II Paper
 III Water
 IV Battery

- A I only
 B I and IV only
 C I, II and III only
 D I, III and IV only

9. All the following are sources of electrical energy **except**

- A dynamo
- B accumulator
- C firewood
- D dry cell

10. Which of the following is a complete circuit ?



11. Which of the following is not correct symbol for the electrical component ?

	Electrical component	Symbol
A		
B		
C		
D		

12. Which of the following statements is **not** correct about dry cells?
- A Not rechargeable
 - B Do not last longer
 - C Supply slight electrical energy
 - D Can be used to light up bicycle light
13. Electrical accidents can be caused by
- I fixing a water heater in the bathroom
 - II switching on appliances with wet hands
 - III using faulty electrical appliances
 - IV connecting many electrical appliances to one main socket
- A II and III only
 - B I, II and III only
 - C II, III and IV only
 - D I, II, III and IV
14. Electrical fires are caused by all of the following **except**
- A overloading of electric socket
 - B a short circuit of exposed wires
 - C touching a switch with wet hands
 - D too much current flowing into the wires
15. Which of the following statements is true?
- I Light can be reflected
 - II Light travels in a straight line
 - III Light can pass through all objects
- A II only
 - B I and II only
 - C II and III only
 - D I, II and III
16. All the following use the principle of light reflection **except**
- A mirror
 - B side mirror
 - C television
 - D kaleidoscope

17.

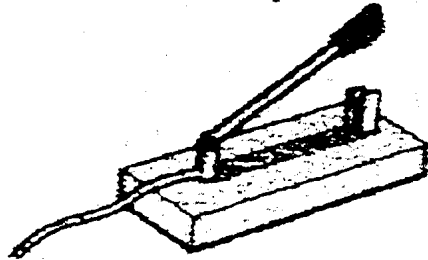
Rubber ball
Aluminium can

Glass prism
Book

Which of the above objects will produce a shadow when light is directed towards it?

- A Rubber ball and book
- B Glass prism and aluminium can
- C Rubber ball, aluminium can and book
- D All the above objects

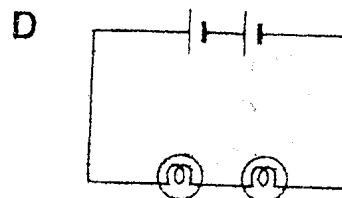
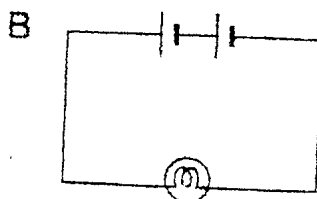
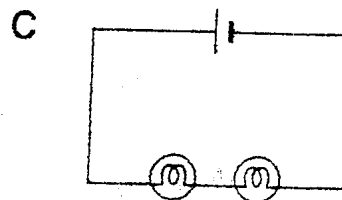
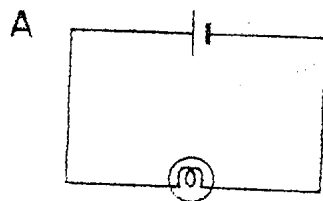
18. Figure below shows a component in a circuit.



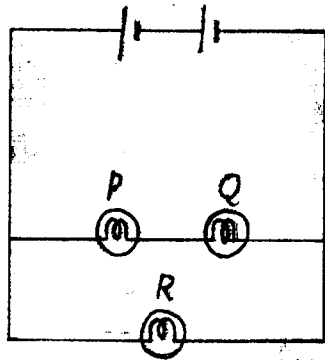
Which is the function of the component?

- A Produces light
- B Supplies electrical energy
- C Connects and breaks electric circuit
- D Connects the components in an electric circuit

19. Which of the following circuits is the brightest ?



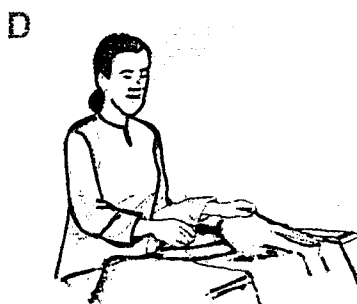
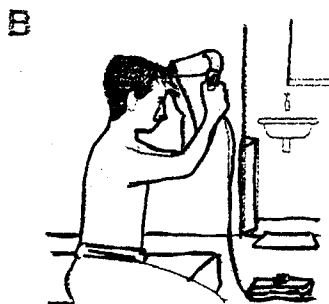
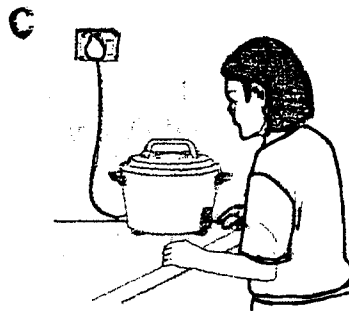
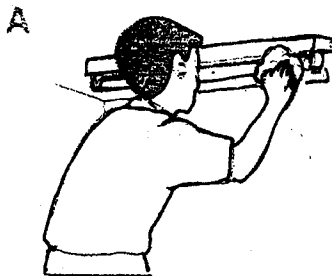
20. Figure below shows a complete circuit.



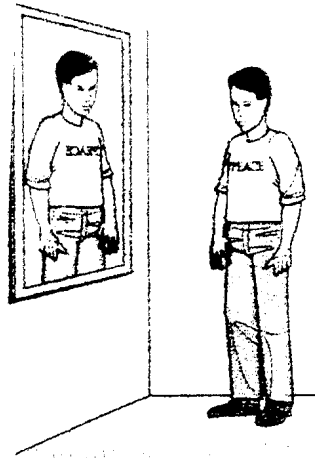
What will happen to bulb Q and R when bulb P is removed from the circuit?

	Bulb Q	Bulb R
A	Lights up	Lights up
B	Lights up	Does not light up
C	Does not light up	Lights up
D	Does not light up	Does not light up

21. Which of the following diagrams shows the correct way of using electrical appliances at home?



22.



What is the characteristic of light that enables us to see ourselves in the mirror?

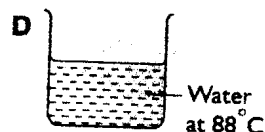
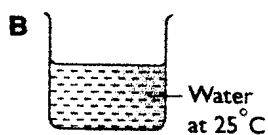
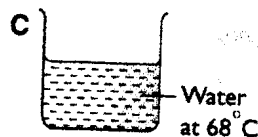
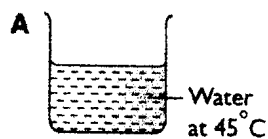
- A Light travels in a straight line
- B Light can be reflected
- C Light can be refracted
- D Light can be absorbed

23. What would happen if an object absorbs heat?

- I It becomes hot
- II It becomes cold
- III Its temperature increases
- IV Its temperature decreases

- A 1 only
- B 1 and III only
- C II and IV only
- D I, II and III

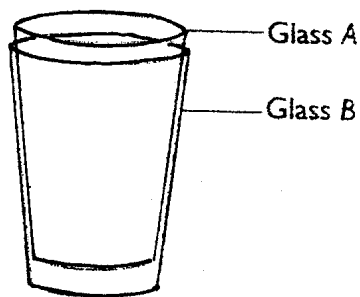
24. Which of the following beakers has water that is the hottest?



25. Hakimi cannot open the lid of a jam jar. Which of the following actions would be able to help him?

- A Put the whole jar in the freezer
- B Heat the whole jar over fire
- C Heat the lid of the jar over fire
- D Put the whole jar into a beaker of hot water

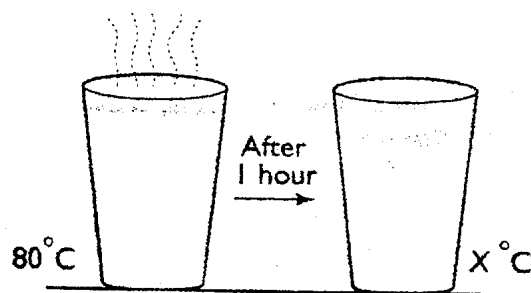
26. The two glasses below A and B that are stuck together



To remove glass a from glass B , Neesha has to pour

- A cold water in glass A and put glass B in hot water
- B hot water in glass A and put glass B in cold water
- C hot water in glass A and put glass B in hot water
- D cold water in glass A and put glass B in cold water

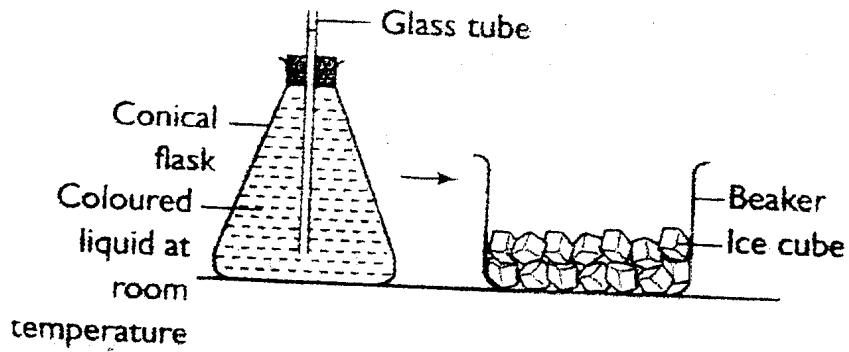
27.



A glass of hot water is placed on the kitchen table. X probably is

- | | | | |
|---|-----|---|----|
| A | -20 | C | 70 |
| B | 28 | D | 90 |

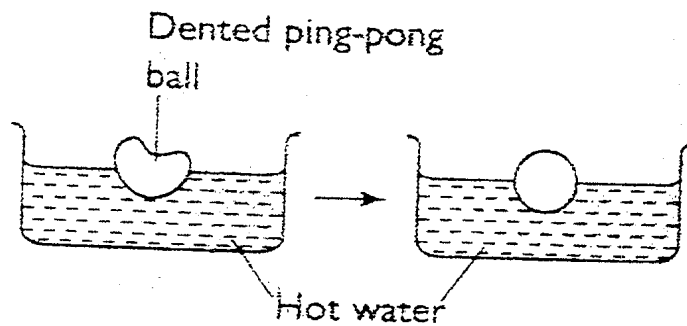
28. Figure below shows an experiment.



What will happen when the conical flask is put into the beaker?

- A The ice cubes in the beaker will melt.
- B The water level in the glass tube will rise.
- C The water level in the glass tube will fall.
- D The water temperature in the beaker will rise.

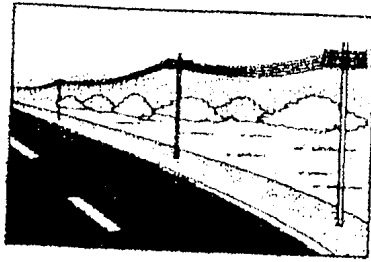
- 29.



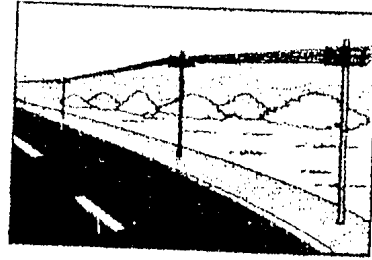
A dented ping-pong ball becomes round again when it is placed in hot water. What is the inference of this investigation?

- A The ping-pong ball becomes hot and expands when heated.
- B The ping-pong ball contracts when heated.
- C The air in the ping-pong ball expands and pushes out the ball casing.
- D The air in the ping-pong ball contracts and pushes out the ball casing.

30.



$X^{\circ}\text{C}$



$Y^{\circ}\text{C}$

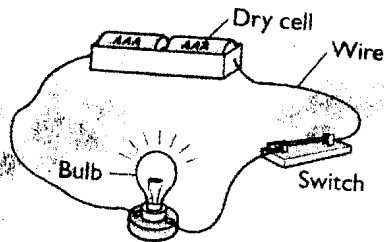
Figure above shows the condition of electric cables at different times.
What could X and Y be?

	X	Y
A	25	38
B	38	25
C	25	25
D	38	38

Section B : Structured Questions

Write your answers in the space provided.

1.



Norman was asked to carry out an experiment regarding the transformation of energy that occurs in the circuit in figure 1.

a) What type of energy is stored in dry cells?

.....
(1 mark)

b) What happens when Norman connects the switch?

.....
(1 mark)

c) State the transformation of energy that occurs in the circuit.

.....
(1 mark)

d) Write the transformation of energy that occurs when the bulb is replaced with the following objects.

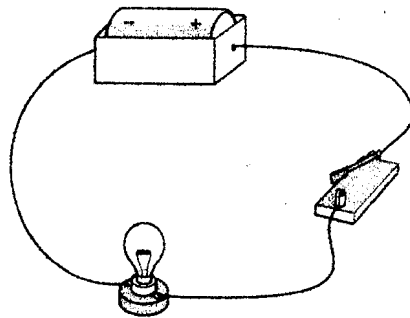
(1) Electric bell

.....
(1 mark)

(11) Coiled wire

.....(1 mark)

2. Figure below shows a bulb in an electric circuit. The bulb does not light up.



a) What should we do if we want to light the bulb up?

.....

(1 mark)

b) What is the function of the dry cell in the circuit?

.....

.....

(1 mark)

c) Draw a circuit diagram to represent the circuit above.

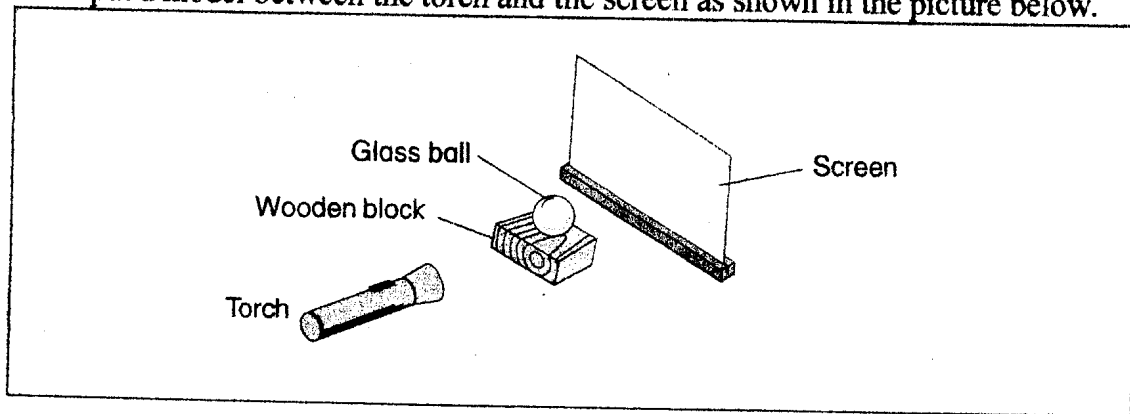
(2 mark)

d) What will happen to the bulb if we add another bulb to the circuit to make a series circuit?

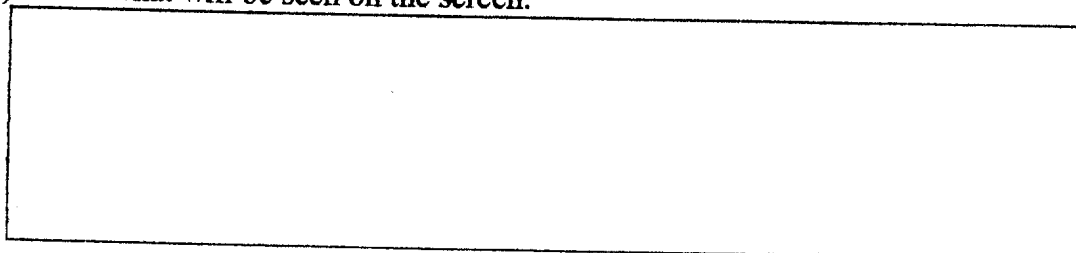
.....

.....(1 mark).

3. Ani put a model between the torch and the screen as shown in the picture below.



(a) Draw what will be seen on the screen.



(1 mark)

(b) Give two reasons based on what you see in the investigation.

(i)

(ii)

(2 marks)

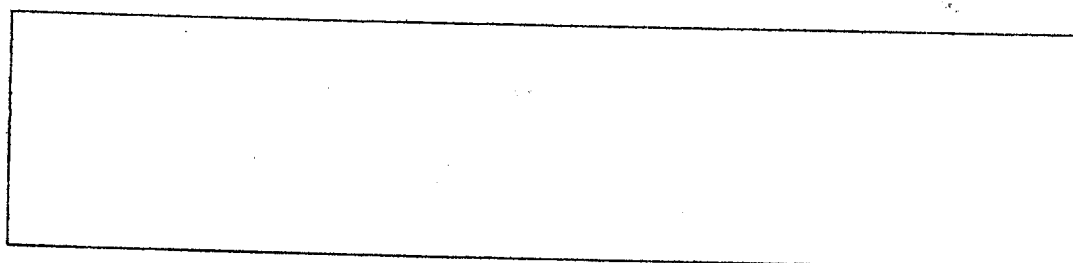
© State the following:

(i) What to change:

.....

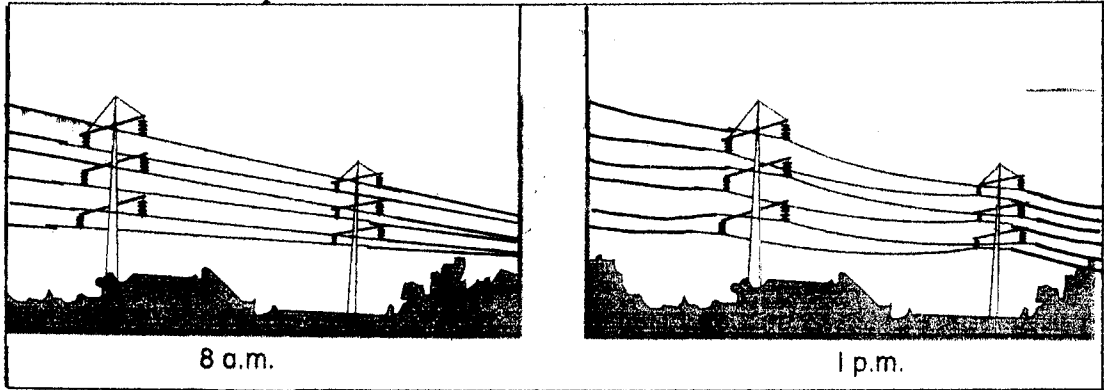
(1 mark)

(c) If the glass ball is replaced by a ping pong ball, what type of shadow can be seen? Draw your answer in the space given below.



(1 mark)

4. The picture below shows two conditions of electric cable at two different times 8.00 a.m and 1.00 p.m.



- (a) Give an observation of the electric cable at 8.00 a.m. and 1.00 p.m.

(i) 8.00 a.m :

.....

(ii) 1.00 p.m :

.....

(2 marks)

- (b) What can you infer from the condition of electric cable at 8.00 a.m. and 1.00 p.m.?

.....

(1 mark)

- © What is being observed in the investigation?

.....

(1 mark)

- (d) What have you learnt from the investigation?

.....

(1 mark)

Disediakan oleh,



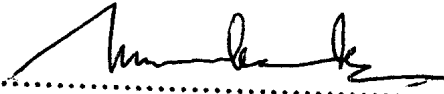
.....
(Pn. Faridah bt. Osman)
Guru Sains Tahun 5
SK. Taman Pantai Sepang Putra

Disemak oleh,



.....
(Pn. Sukinah bt. Basiran)
Ketua Panitia Sains
SK. Taman Pantai Sepang Putra.

Disahkan oleh,



.....
(Tn. Hj. Mohammad Nasir b. Mestam)
Penolong Kanan Kurikulum
SK. Taman Pantai Sepang Putra.
Hj Mohammad Noor Sanusi
Guru Besar
Sek Keb Taman Pantai Sepang Putra
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Selangor Darul Ehsan