

NAMA MURID:

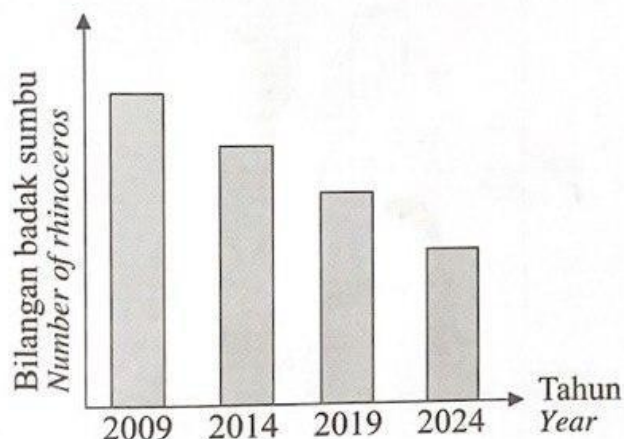
1 Jam 15 Minit

KELAS:

BAHAGIAN A

[10 markah]

- 1 Carta palang menunjukkan bilangan badak sumbu di hutan X.
The bar chart shows the number of rhinoceros in forest X.



Pilih inferens yang sesuai berdasarkan bilangan badak sumbu di hutan X.
Choose the suitable inference based on the number of rhinoceros in forest X.

- A Makanan di hutan X meningkat.
Food in forest X increases.
- B Badak sumbu diburu oleh pemburu haram.
The rhinoceros are poached by illegal hunter.
- C Lebih banyak hutan simpan diwartakan.
More reserve forests are gazetted.
- D Pusat pemuliharaan badak sumbu dibina di hutan X.
Rehabilitation centre for rhinoceros has been set up in forest X.

2

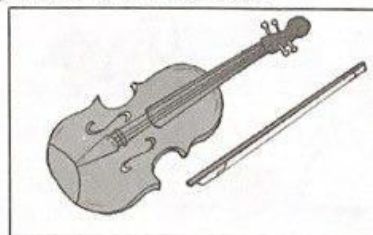
Eksperimen :
Experiment :

Suatu objek didekatkan dengan sumber cahaya
An object is brought closer to a light source

Apakah pemerhatian yang boleh dibuat pada bayang-bayang objek itu?
What observation can be made on the shadow of the object?

- A Saiz bayang-bayang objek menjadi lebih kecil
The size of the shadow of the object becomes smaller
- B Saiz bayang-bayang objek menjadi lebih besar
The size of the shadow of the object becomes bigger
- C Bayang-bayang objek kelihatan kurang jelas
The shadow of the object is less clear
- D Bayang-bayang objek kelihatan lebih jelas
The shadow of the object is more clear

- 3 Rajah 1 menunjukkan suatu alat.
Diagram 1 shows a tool.



Rajah 1
Diagram 1

Alat di atas boleh menghasilkan bunyi melalui

The above tool can produce sound through

- A tepukan
clapping
- B ketukan
knocking
- C tiupan
blowing
- D gesekan
bowing

4

Haiwan K
Animal K

- Bernafas melalui peparu
Breathe through the lungs
- Membiak dengan bertelur
Reproduce by laying eggs
- Badan diliputi bulu pelepah
The body is covered with feathers
- Habitatnya ialah di darat
The habitat is on land

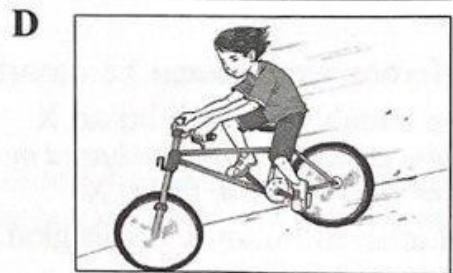
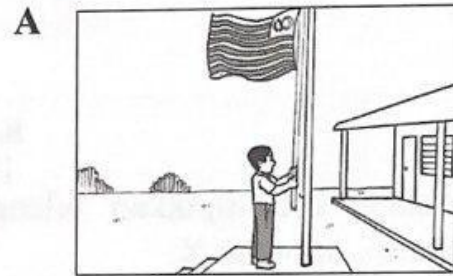
Merujuk kepada ciri-ciri di atas, haiwan K boleh dikelaskan sebagai
Referring to the characteristics above, animal K can be classified as a

- A burung *bird* C reptilia *reptile*
B mamalia *mammal* D ikan *fish*

- 5 Antara aktiviti di bawah, yang manakah paling tinggi kadar pernafasan?
Which of the following activities has the highest breathing rate?



- 6 Rajah yang manakah menunjukkan mesin ringkas satah condong?
Which diagram shows an inclined plane?



7



Bahan api seperti petroleum, gas asli dan arang batu dibakar untuk menjana tenaga elektrik.

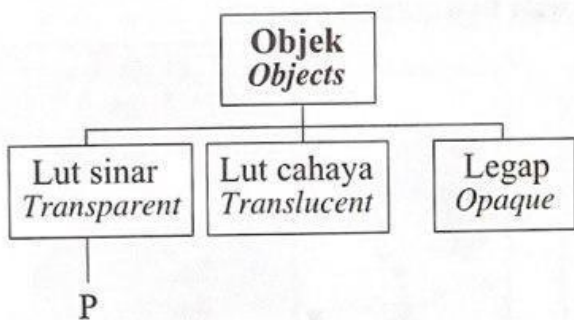
Fuels such as petroleum, natural gas and coal are burned to generate electricity.

Rajah 2
Diagram 2

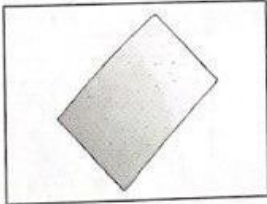
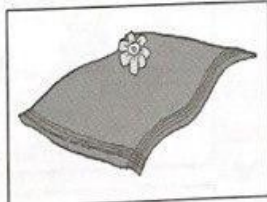
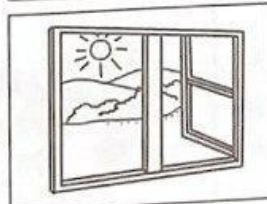
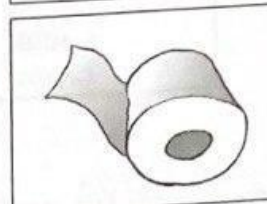
Sumber tenaga yang merujuk kepada dialog di atas ialah
The energy source that refers to the above dialogue is

- A nuklear *nuclear* C biojisim *biomass*
B angin *wind* D bahan api fosil *fossil fuels*

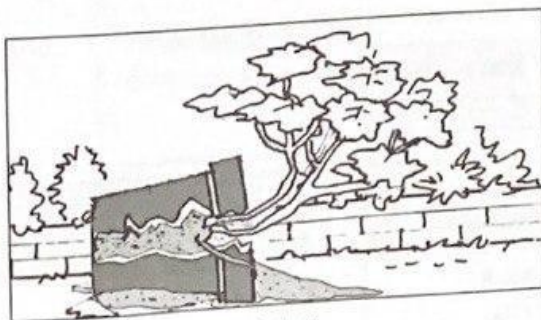
- 8 Carta menunjukkan pengelasan objek.
The chart shows the classification of objects.



Objek yang mewakili P ialah
The object that represents P is

- A  Kertas pasir
Sandpaper
- B  Sapu tangan
Handkerchief
- C  Tingkap
Window
- D  Kertas tisu
Tissue paper

9

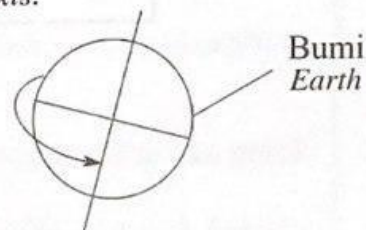


Rajah 3
Diagram 3

Situasi dalam Rajah 3 diperhatikan di taman permainan. Pilih inferens yang betul berdasarkan pemerhatian pada pokok di dalam pasu bunga yang pecah. Tumbuhan tumbuh ke atas kerana
Situation in Diagram 3 is observed in a playground. Choose the correct inference based on the observation of the plant in the broken vase. The plant grows upwards to

- A bergerak balas terhadap air
respond towards water
- B bergerak balas terhadap udara
respond towards air
- C bergerak balas terhadap cahaya
respond towards light
- D bergerak balas terhadap mineral
respond towards minerals

- 10 Rajah 4 menunjukkan Bumi berputar pada paksinya sendiri.
Diagram 4 shows the Earth rotates on its own axis.



Rajah 4
Diagram 4

Antara kejadian berikut, yang manakah berlaku apabila Bumi berputar pada paksinya sendiri?

Which of the following events occurs when the Earth rotates on its own axis?

- A Fasa-fasa Bulan
Phases of the Moon
- B Kutub Bumi sentiasa sejuk
The poles on the Earth always cold
- C Kejadian siang dan malam
Occurrence of day and night
- D Kejadian empat musim
Occurrence of four seasons

BAHAGIAN B
[8 markah]

- 1 (a) Padankan maklumat di bawah dengan **dua** haiwan yang betul.
*Match the information below with **two** correct animals.*

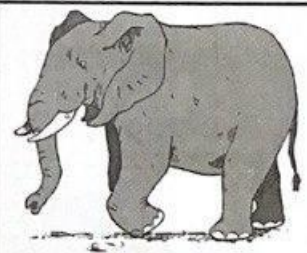
**Maklumat
Information**

Saya berdarah sejuk
dan bernafas melalui
peparu. Siapakah saya?
*I am cold-blooded and
breathe through my
lungs. Who am I?*

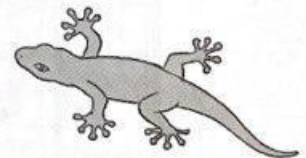
**Haiwan
Animal**



Katak
Frog



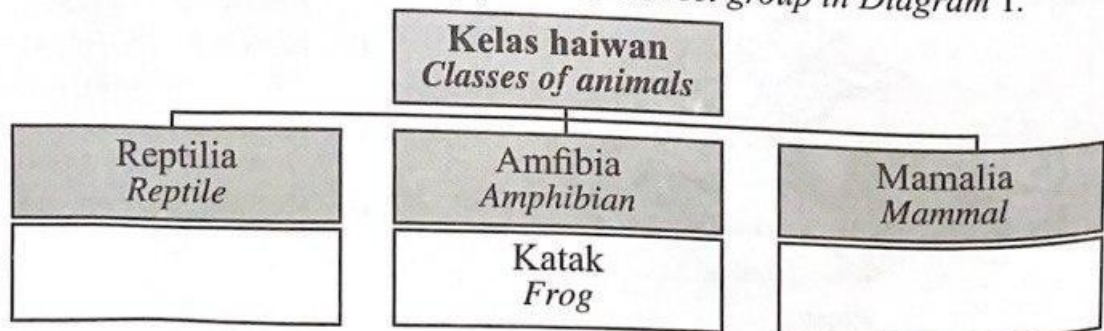
Gajah
Elephant



Cicak
Lizard

[2 markah]
[2 marks]

- (b) Kelaskan haiwan-haiwan di (a) ke dalam kumpulan yang betul
dalam Rajah 1.
Classify the animals in (a) into the correct group in Diagram 1.



Rajah 1
Diagram 1

1(a)

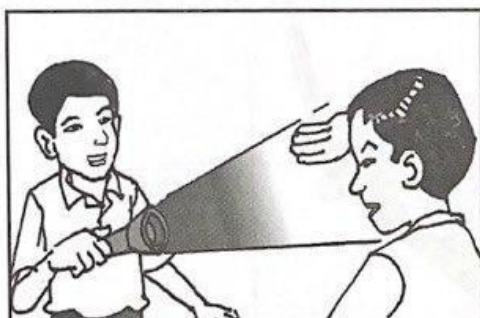
	2
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1(b)

	2
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- 2 Rajah 2 menunjukkan penyiasatan I dan II yang dijalankan oleh sekumpulan murid.

Diagram 2 shows investigations I and II conducted by a group of pupils.



Penyiasatan I
Investigation I



Penyiasatan II
Investigation II

Rajah 2
Diagram 2

Penyiasatan I : Halakan cahaya lampu suluh ke arah rakan kamu.

Investigation I : Point the torchlight toward your friend.

Penyiasatan II : Tingkatkan bunyi lagu daripada radio supaya rakan kamu boleh dengar.

Investigation II : Increase the sound of a song from the radio so that your friend can hear it.

Lengkapkan jadual di bawah. Catatkan organ deria yang terlibat dan gerak balas rakan kamu itu.

Complete the table below. Record the sensory organs involved and your friend's responses.

	Organ deria <i>Sensory organ</i>	Gerak balas <i>Response</i>
(a) Penyiasatan I <i>Investigation I</i>		
(b) Penyiasatan II <i>Investigation II</i>		

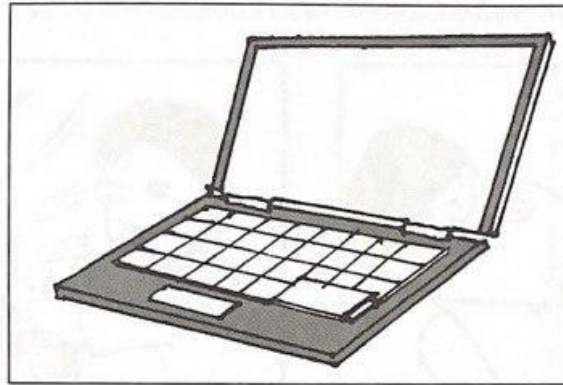
[4 markah]
[4 marks]

2(a)(b)

4

BAHAGIAN C
[32 markah]

- 1 Rajah 1 menunjukkan peralatan elektronik yang digunakan pada masa kini.
Diagram 1 shows an electronic device that is commonly used nowadays.

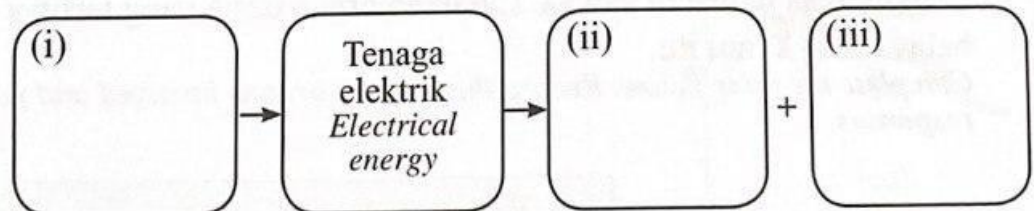


Rajah 1
Diagram 1

- (a) Apakah sumber tenaga yang digunakan dalam peralatan itu?
What is the source of energy used in the device?

[1 markah]
[1 mark]

- (b) Lengkapkan perubahan bentuk tenaga yang berlaku bagi peralatan tersebut.
Complete the transformation of energy occurred for the device above.



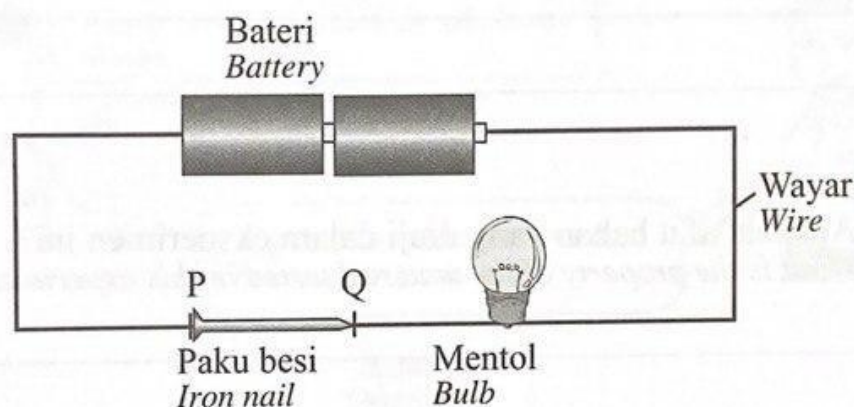
[3 markah]
[3 marks]

- (c) Berikan **satu** contoh peralatan lain yang mengalami perubahan tenaga yang sama seperti dalam Rajah 1.
*Give **one** example of another device that has the same transformation of energy as in Diagram 1.*

[1 markah]
[1 mark]

- (d) Berikan **satu** contoh sumber tenaga yang boleh dibaharui.
*Give **one** example of a renewable energy source.*

- 2 Rajah 2 menunjukkan eksperimen yang dijalankan oleh seorang murid. Dia menyambungkan paku besi di antara P dengan Q dalam litar itu. Diagram 2 shows an experiment conducted by a pupil. He connected the iron nail between P and Q in that circuit.



Rajah 2
Diagram 2

- (a) Tuliskan pemerhatian kamu berdasarkan eksperimen di atas.
Write your observation based on the experiment above.

[1 markah]
[1 mark]

- (b) Tuliskan **satu** inferens berdasarkan jawapan kamu di (a).
*Write **one** inference based on your answer in (a).*

[1 markah]
[1 mark]

- (c) Ramalkan apa yang akan berlaku jika paku besi itu digantikan dengan straw.
Predict what will happen if the iron nail is replaced with a straw.

[1 markah]
[1 mark]

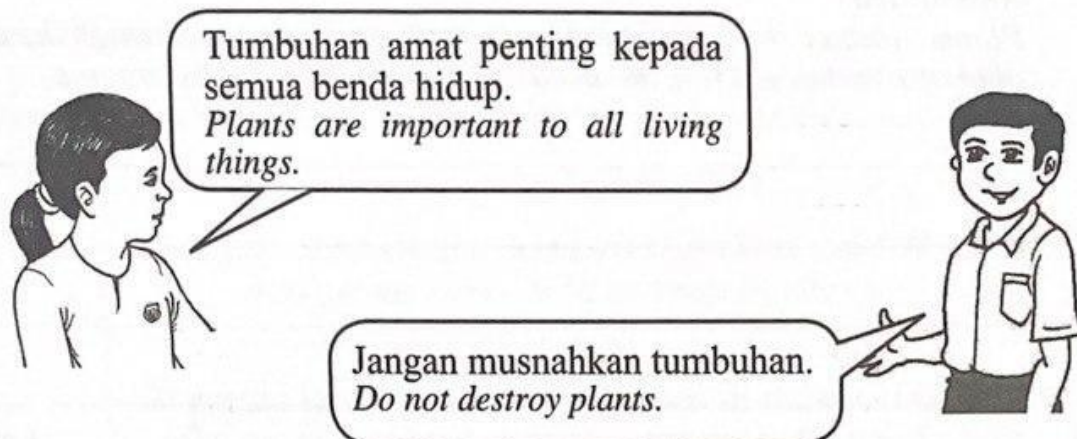
- (d) Berdasarkan jawapan di (c), tuliskan inferens kamu.
Based on the answer in (c), write your inference.

[2 markah]
[2 marks]

- (e) Apakah sifat bahan yang diuji dalam eksperimen ini?
What is the property of the material tested in this experiment?

[1 markah]
[1 mark]

- 3 Rajah 3 menunjukkan dialog di antara dua orang murid.
Diagram 3 shows dialogues between two pupils.



Rajah 3
Diagram 3

- (a) (i) Berdasarkan dialog di atas, adakah benar tumbuhan amat penting?
Based on the dialogues above, is it true that plants are important?

Ya ☐ Tidak ☐
Yes No

[1 markah]
[1 mark]

- (ii) Berikan alasan kamu.
Give your reason.

[1 markah]
[1 mark]

(b)

Haiwan dan tumbuhan saling bertukar gas antara satu sama lain.
Animals and plants exchange gases between each other.

Terangkan pernyataan di atas.
Explain the statement above.

[2 markah]
[2 marks]

- (c) Tumbuhan menghasilkan gas yang diperlukan oleh haiwan dan manusia melalui proses fotosintesis. Berikan keperluan proses fotosintesis.

Plants produce the gas needed by animals and humans through the process of photosynthesis. Give the needs of the photosynthesis process.

[4 markah]
[4 marks]

- (d) Apakah yang akan berlaku sekiranya tiada tumbuhan? Jelaskan.
What will happen if there are no plants? Explain.

[2 markah]
[2 marks]

- 4 Sekumpulan murid menjalankan eksperimen untuk mengkaji masa yang diambil oleh gula untuk larut di dalam 100 ml air. Berikut adalah maklumat yang direkodkan oleh mereka.

A group of pupils conducted an experiment to study the time taken by sugar to dissolve in 100 ml of water. The following is the information they recorded.

50 g gula larut dalam masa 10 saat di dalam 100 ml air
50 g of sugar dissolves in 10 seconds in 100 ml of water

60 g gula larut dalam masa 15 saat di dalam 100 ml air
60 g of sugar dissolves in 15 seconds in 100 ml of water

70 g gula larut dalam masa 20 saat di dalam 100 ml air
70 g of sugar dissolves in 20 seconds in 100 ml of water

- (a) Nyatakan pemboleh ubah yang berikut :

State the following variables:

- (i) Dimanipulasikan :

Manipulated : _____

- (ii) Bergerak balas :

Responding : _____

- (iii) Dimalarkan :

Constant : _____

[3 markah]
[3 marks]

4(a)(i)(ii)

3

- (b) Apakah hubungan di antara kedua-dua pemboleh ubah yang dinyatakan di (a)?

What is the relationship between the two variables stated in (a)?

[2 markah]
[2 marks]

4(b)

2

- (c) Ramalkan masa bagi 80 g gula untuk larut di dalam 100 ml air.
Predict the time for 80 g of sugar to dissolve in 100 ml of water.

Masa: _____ saat
Time: _____ seconds

[1 markah]

4(c)

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- [2 markah]

(e) Berikan **dua** tafsiran berdasarkan jadual di (d).
Give **two** interpretation based on the table in (d).

- [2 markah]
[2 marks]