

## SECTION A

Answer **all** questions.

This section consists of objective questions. Each question is followed by four options, **A**, **B**, **C** and **D**. Choose the correct answer. If you are unable to answer any question, proceed to the next question.

1. The following information shows how plant J and K protect themselves from enemies  
*Maklumat berikut menunjukkan cara tumbuhan J dan K melindungi diri daripada musuh*

J :	Sharp thorns <i>Berduri tajam</i>
K :	Produce latex <i>Mengeluarkan susu getah</i>

Which of the followings represent J and K?

*Antara yang berikut, yang manakah mewakili J dan K?*

	J	K
A	Cactus plant <i>Pokok Kaktus</i>	Rubber tree <i>Pokok Getah</i>
B	Banana plant <i>Pokok Pisang</i>	Mimosa <i>Pokok Semalu</i>
C	Pineapple plant <i>Pokok Nanas</i>	Coconut tree <i>Pokok Kelapa</i>
D	Papaya plant <i>Pokok Betik</i>	Jack fruit <i>Pokok Nangka</i>

2. The following information shows the characteristics of an animal.  
*Maklumat berikut menunjukkan ciri-ciri seekor haiwan.*

Have sharp claws <i>Mempunyai kuku yang tajam</i> Carnivores animal <i>Haiwan karnivor</i> Live in solitary <i>Hidup bersendirian</i>
--

Based on the above information above, where is the most suitable habitat of this animal?

*Berdasarkan maklumat di atas, di manakah habitat yang paling sesuai untuk haiwan ini hidup?*

- |   |                        |   |   |
|---|------------------------|---|---|
| A | River<br><i>Sungai</i> | C | Underground hole<br><i>Lubang bawah tanah</i> |
| B | Cave<br><i>Gua</i>     | D | Jungle<br><i>Hutan</i>                        |

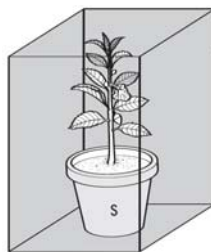
3. The following can be used for measuring length.  
*Perkara berikut boleh digunakan untuk mengukur panjang.*



Which of the following is the correct sequence from the shortest to the longest?

*Antara berikut yang manakah susunan yang betul daripada paling pendek ke paling panjang?*

- A** Foot, span cubit, arm span  
*kaki, jengkal, hasta, depa*
- B** Span, cubit, arm span, foot  
*Jengkal, hasta, depa, kaki*
- C** Arm span, cubit, foot, span  
*Depa, hasta, kaki, jengkal*
- D** Span, foot, cubit, arm span  
*Jengkal, kaki, hasta, depa*
4. Diagram below shows a plant placed in a dark box.  
*Rajah di bawah menunjukkan sejenis tumbuhan yang diletakkan di dalam sebuah kotak gelap.*



What should be done to the plant to help it to alive after a week?

*Apakah yang perlu dilakukan kepada tumbuhan itu supaya terus hidup selepas seminggu?*

- A** Water it.  
Siram air.
- B** Fertilize it.  
Beri baja
- C** Place it outside the box.  
Letak di luar kotak.
- D** Place it in the dark room.  
Letak di dalam bilik gelap.

5. The following information states the characteristics of a seed.  
*Maklumat berikut menyatakan tentang ciri sejenis bijibenih.*

I am fleshy and edible.  
*Saya berisi dan boleh dimakan.*

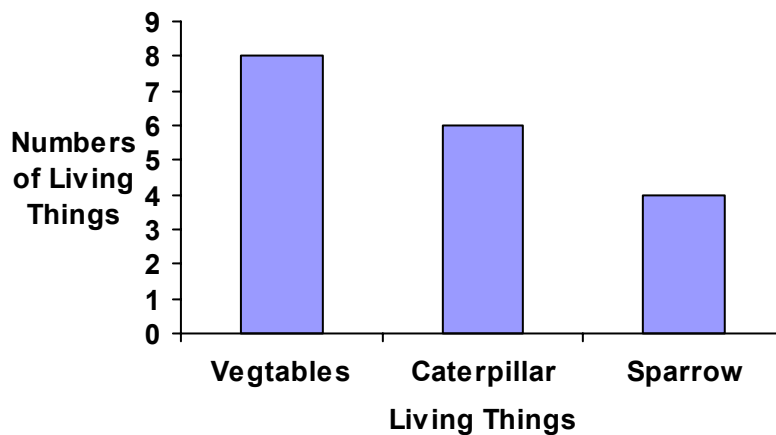
I have a smell and brightly coloured.  
*Saya mempunyai bau dan berwarna terang.*

I have seeds too.  
*Saya juga mempunyai biji.*

What is the dispersion agent for the seed?  
*Apakah agen penyebaran bagi biji benih itu?*

- |          |                      |          |   |
|----------|----------------------|----------|---|
| <b>A</b> | Water<br><i>Air</i>  | <b>C</b> | Animal<br><i>Haiwan</i>                         |
| <b>B</b> | Wind<br><i>Angin</i> | <b>D</b> | Explosive mechanism<br><i>Mekanisme letupan</i> |

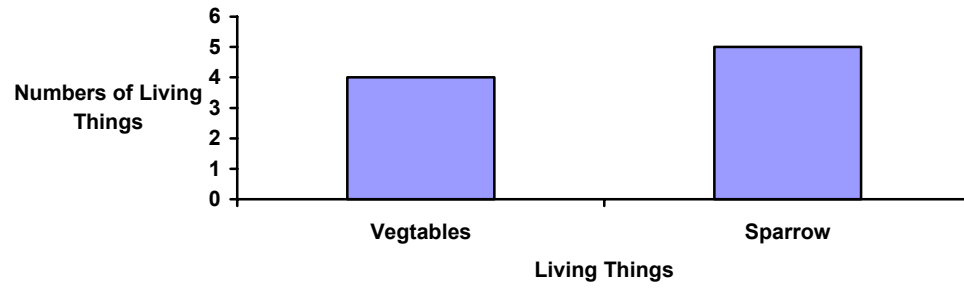
6. In a particular habitat, a variety of living things are found. The bar chart in diagram shows the number of three types of living things in the habitat.  
*Dalam suatu habitat, terdapat pelbagai jenis hidupan. Carta palang dalam rajah menunjukkan bilangan tiga jenis hidupan di habitat itu.*



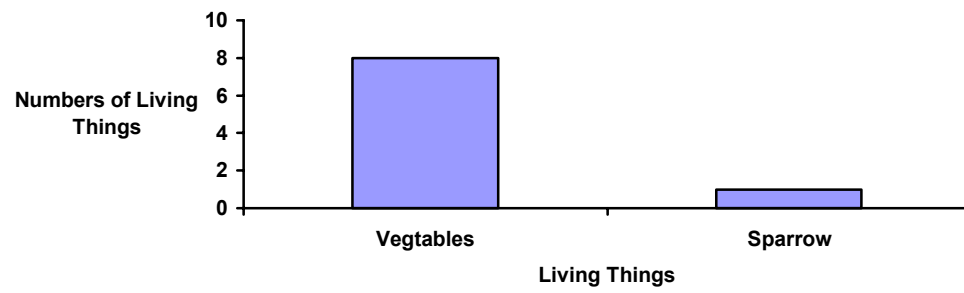
All the caterpillar are eliminated.  
Which of the following bar charts do you expect would show the changes in the number of vegetables and sparrow?

*Semua ulat beluncas dihapuskan.*  
*Antara carta palang berikut yang manakah kamu jangkakan boleh menunjukkan perubahan ke atas bilangan sayur-sayuran dan burung pipit.*

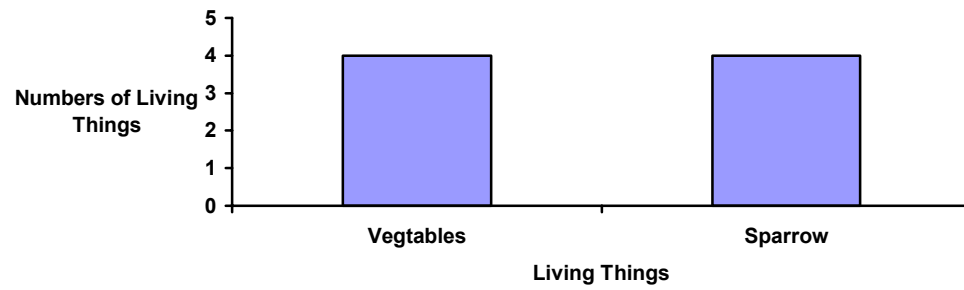
**A**



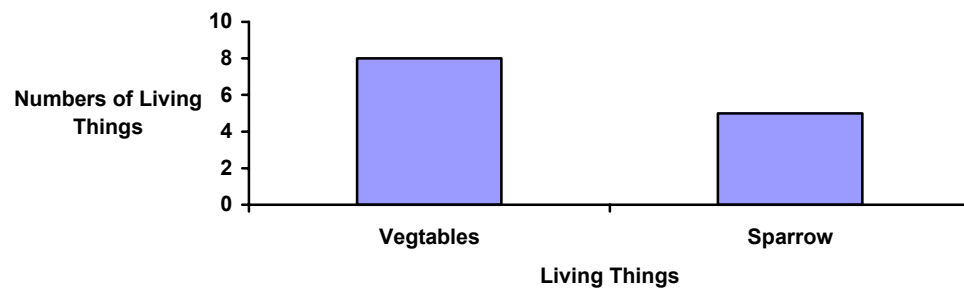
**B**



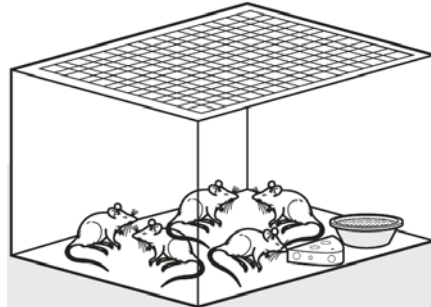
**C**



**D**



7. Diagram below shows a group of rats in one cage. One of the rats is very skinny compared to the others.  
*Rajah di bawah menunjukkan sekumpulan tikus di dalam sebuah sangkar. Seekor daripada tikus ini adalah sangat kurus berbanding yang lain.*



What is the type of competition could be happened to explain this situation?  
*Apakah bentuk persaingan yang mungkin berlaku untuk menerangkan situasi ini?*

- |          |                 |          |                   |
|----------|-----------------|----------|-------------------|
| I        | Food            |          |                   |
|          | Makanan         |          |                   |
| II       | Space           |          |                   |
|          | Ruang           |          |                   |
| III      | Partner         |          |                   |
|          | Pasangan        |          |                   |
| <b>A</b> | I only          | <b>C</b> | I and III only    |
|          | I sahaja        |          | I dan III sahaja  |
| <b>B</b> | I and II only   | <b>D</b> | II and III only   |
|          | I dan II sahaja |          | II dan III sahaja |

8. What is meant by competition?  
*Apakah maksud persaingan?*

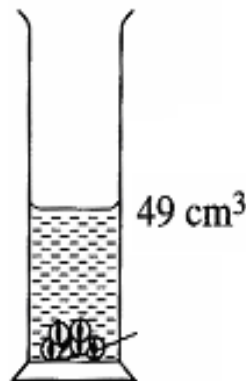
- |   |   |
|---|---|
| A | A condition where various species are extinct   |
|   | <i>Keadaan di mana pelbagai spesies pupus</i>   |
| B | A struggle to acquire limited basic needs   |
|   | <i>Perebutan untuk mendapatkan keperluan asas yang terhad</i>   |
| C | To maintain the condition of habitats so that living things can live naturally                                |
|   | <i>Mengekalkan keadaan habitat supaya hidupan dapat hidup secara semulajadi</i>                               |
| D | To care for something by improving it towards its original state to avoid extinction                          |
|   | <i>Menjaga semula sesuatu keadaan dengan memperbaikinya ke arah keadaan asal untuk mengelakkan kepupusan.</i> |

9. Table below shows the measurement of length of arm span of four pupils. The information shows that the arm span...

*Jadual di bawah menunjukkan ukuran panjang depa empat orang murid. Maklumat ini menunjukkan bahawa depa .....*

<b>Pupil</b> <i>Murid</i>	<b>Length of an arm span / cm</b> <i>Panjang depa murid / cm</i>
M	72 cm
N	70 cm
O	71 cm
P	68 cm

- A is not the unit for length  
*bukan unit untuk mengukur panjang*
- B is not the standard unit for length  
*bukan untuk piawai untuk mengukur panjang*
- C is a limited unit for length  
*unit terhad untuk ukuran panjang*
- D is a rare unit to measure length  
*unit yang tepat untuk mengukur panjang*
- 10 Diagram below shows a five marbles and a measuring cylinder filled with of water.  
*Rajah di bawah menunjukkan lima biji guli dan sebuah silinder penyukat yang berisi air.*



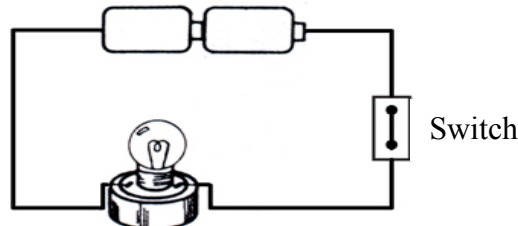
What is the volume of five marbles if the initial volume of water is 25 cm³?  
*Berapakah isipadu 5 biji guli itu jika isipadu asal air ialah 25 cm³?*

- A 24 cm³
- B 25 cm³
- C 26 cm³
- D 27 cm³

11. A dented ping pong ball is put into a beaker with hot water. Later the ping pong ball returns to its original shape. What causes the ping pong ball return to its original shape?  
*Sebiji bola ping pong yang kemeak dimasukkan ke dalam bikar yang berisi air panas. Didapati bola ping pong itu kembali ke bentuk asalnya. Apakah yang menyebabkan bola ping pong itu kembali ke bentuk asalnya?*

- A The ping pong ball expands when heated  
*Bola ping pong itu mengembang apabila dipanaskan*  
 B Water expands when heated  
*Air mengembang apabila dipanaskan.*  
 C The air in the ping pong ball expands when heated  
*Udara dalam bola ping pong mengembang apabila dipanaskan.*  
 D The ping pong ball contracts when heated  
*Bola ping pong mengecut apabila dipanaskan*

12. Diagram shows an investigation about the conductors of electric current.  
*Rajah di bawah menunjukkan satu penyiasatan tentang konduktor arus elektrik.*



What object can be used to replace the switch to light up the bulb?  
*Apakah object yang boleh menggantikan suis untuk menyalakan mentol.*

- |                                     |                            |
|-------------------------------------|----------------------------|
| A Paper<br><i>kertas</i>            | C eraser<br><i>pemadam</i> |
| B pencil lead<br><i>mata pensel</i> | D stone<br><i>batu</i>     |

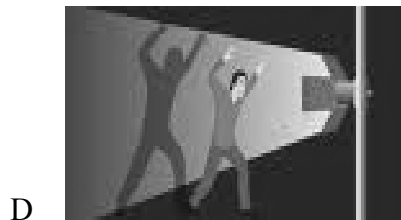
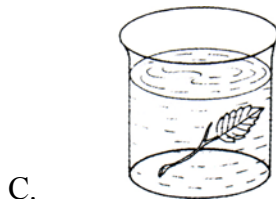
13. Diagram below shows the side mirror of a car.  
*Gambarajah 2 menunjukkan cermin sisi sebuah kereta*



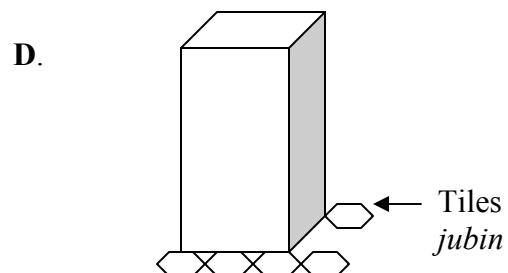
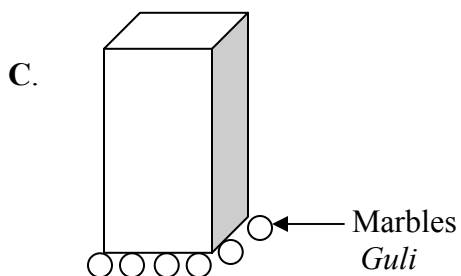
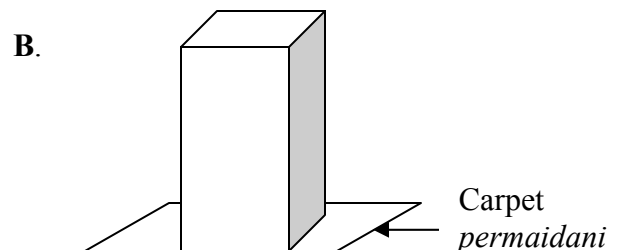
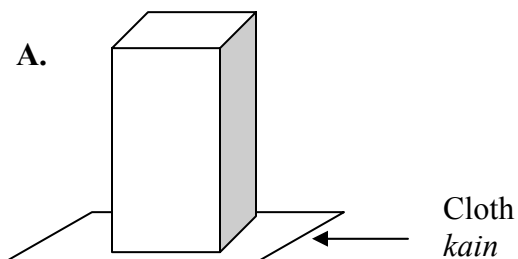
We can see objects in this side mirror because light ....  
*Kita boleh melihat objek dalam cermin sisi kerana cahaya*

- |                                      |  |
|--------------------------------------|--|
| A is blocked<br><i>dihalang</i>      | C is absorbed<br><i>diserap</i>  |
| B is reflected<br><i>dipantulkan</i> | D travels in a straight line<br><i>Cahaya bergerak dalam garis lurus</i> |

14. Which of the following shows the principle of light reflection?  
 Yang manakah antara yang berikut menunjukkan prinsip pantulan cahaya?

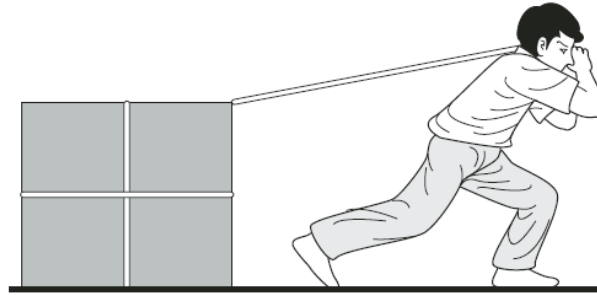


15. Year 4 pupil faces difficulty in moving a cupboard in his class. Which of the following methods can help the pupil to move the cupboard easily?  
 Seorang murid tahun 4 menghadapi kesukaran untuk menggerakkan almari di dalam kelasnya. Antara yang berikut, yang manakah dapat membantunya menggerakkan almari tersebut?



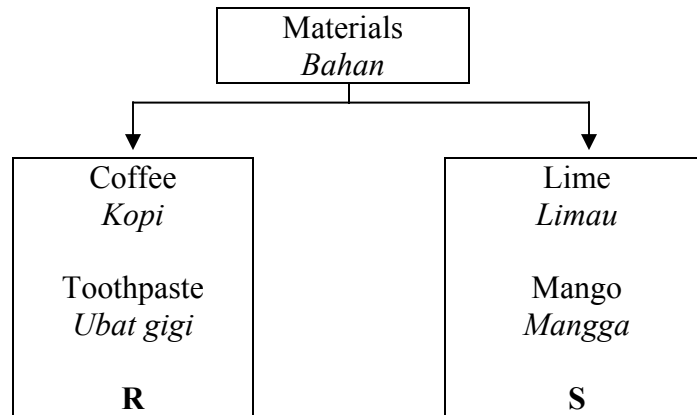


16. Which of the following activities involved the same type of force for the activity above?  
*Antara yang berikut yang manakah melibatkan daya yang sama seperti aktiviti di atas?*



- A Pulling a flag  
*Menaikkan bendera*
  - B Knocking a nail  
*Mengetuk paku*
  - C Sharpening a pencil  
*Mengasah pensil*
  - D Knocking on a door  
*Mengetuk pintu*
17. Which of the following characteristics of materials are the most suitable for making an umbrella?  
*Antara ciri bahan berikut, yang manakah paling sesuai digunakan untuk membuat sekaki payung?*
- A Can be reused and recycled  
*Boleh diguna semula dan dikitar semula*
  - B Beautiful and colourful.  
*Cantik dan berwarna warni.*
  - C Light and waterproof.  
*Ringan dan kalis air.*
  - D Easily shaped and soft.  
*Mudah dibentuk dan lembut.*
18. Which of the following is the result of melting process?  
*Antara yang berikut, yang manakah merupakan hasil proses peleburan?*
- A Ice in a glass melts.  
*Ais di dalam gelas cair.*
  - B Water in a puddle on the roadside becomes dry .  
*Air di dalam lopak di tepi jalan menjadi kering.*
  - C Dew on the leaves slowly dries up  
*Embun di atas daun perlahan-lahan menghilang.*
  - D Sweat on our body becomes dry.  
*Peluh di badan menjadi kering.*

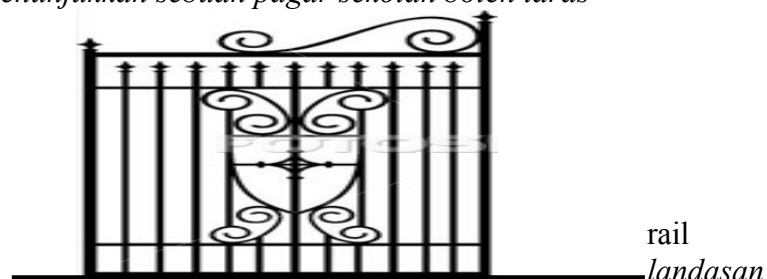
19. Diagram 12 shows that materials can be classified into two groups.  
*Rajah 12 menunjukkan bahan-bahan yang diklasifikasikan kepada 2 kumpulan.*



Which of the followings correctly represent R and S  
*Antara berikut yang manakah mewakili A dan B dengan betul.*

	R	S
A	Sugar <i>Gula</i>	Cooking oil <i>Minyak masak</i>
B	Orange juice <i>Jus oren</i>	Tomato ketchup <i>Sos tomato</i>
C	Bitter gourd <i>Peria</i>	Medicine <i>Ubat</i>
D	Salt <i>Garam</i>	Soy sauce <i>Kicap</i>

20. Diagram below shows an adjustable school gate.  
*Rajah di bawah menunjukkan sebuah pagar sekolah boleh laras*



It is difficult to open the gate. What should be done to the rail of the gate?  
*Pagar itu didapati sukar untuk dibuka. Apakah yang perlu dilakukan terhadap landasan pagar itu.*

- |   |                                   |   |  |
|---|-----------------------------------|---|--|
| A | Paint it<br><i>Dicat</i>          | C | Wash it with water<br><i>Dicuci dengan air</i>               |
| B | Oiled it<br><i>Diletak minyak</i> | D | Rub it with sand paper<br><i>Digosok dengan kertas pasir</i> |

21. A bowl of rice is left on the table for three days. Fungi had grown on the rice.  
*Semangkuk nasi dibiarkan di atas meja selama 3 hari. Kulat telah tumbuh pada nasi tersebut.*

What condition causes the growth of fungi on the rice?

*Apakah keadaan yang menyebabkan pertumbuhan kulat pada nasi itu?*

- A** Hot and dry  
*Panas dan kering*
- B** Cold and dry  
*Sejuk dan kering*
- C** Hot and damp  
*Panas dan lembap.*
- D** Cold and damp  
*Sejuk dan lembap*

22. The following information shows a pineapple canning process.  
*Maklumat berikut menunjukkan proses mengetin nanas.*

J - Put the pineapple cubes into a can and pour in syrup.  
*Masukkan potongan nanas ke dalam tin dan tuangkan air gula.*

K - Seal the can  
*Paterikan tin*

L - Peel the pineapple and cut it into cubes.  
*Kupas nanas dan potong dalam bentuk kubus.*

M – Heat the can.  
*Panaskan tin.*

Choose the correct sequence for the canning process.  
*Pilih urutan yang betul dalam proses pengetinan.*

- A** M, J, L, K
- B** K, L, M, J
- C** L, J, M, K
- D** M, L, K, J

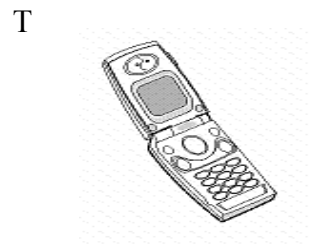
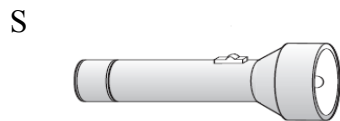
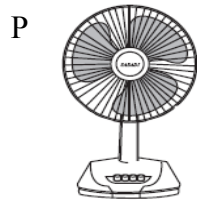
23. The information below are steps taken when recycling old newspapers .  
*Maklumat di bawah menunjukkan langkah-langkah mengitar semula surat khabar lama .*

K	- Filtering <i>Menapis</i>	M	- Drying <i>Mengeringkan</i>
L	- Soaking and grinding <i>Merendam dan mengisar</i>	N	- Smoothing <i>Meratakan</i>

Choose the correct sequence .  
*Pilih urutan langkah yang betul .*

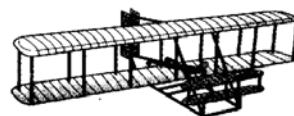
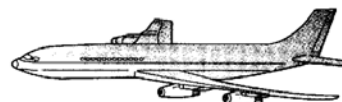
- A** N, M, K, L
- B** K, N, L, M
- C** M, N, L, K
- D** L, K, N, M

- 24 Which of the following electrical appliances uses the heating effect?  
*Antara alat-alat elektrik yang berikut, yang manakah menggunakan kesan pemanasan ?*



- A** R only  
*R sahaja*  
**B** S only  
*S sahaja*  
**C** R and S  
*R dan S*  
**D** S and T  
*S dan T*

- 25 Choose the correct sequence to show the development of technology in air transportation.  
*Pilih urutan yang betul untuk menunjukkan perkembangan teknologi dalam pengangkutan udara.*



- A** P → R → S → Q  
**B** R → P → S → Q  
**C** R → S → P → Q  
**D** P → R → Q → S

26. Figure shows an animal.  
*Rajah menunjukkan seekor haiwan.*



Which of the following animals eats only the animal shown above?  
*Antara haiwan berikut, yang manakah hanya makan haiwan yang ditunjukkan di atas?*



27. The picture below shows things that had been invented.  
*Gambar di bawah menunjukkan alatan yang telah direkacipta.*



This thing is used in the field of .....  
*Alatan ini digunakan dalam bidang .....*

- A** Transport  
*Pengangkutan*
- B** Agriculture  
*Pertanian*
- C** Communication  
*Perhubungan*
- D** Building  
*Pembinaan*

28. The following information compares the size of four boxes. All the boxes are made from the same type of material.

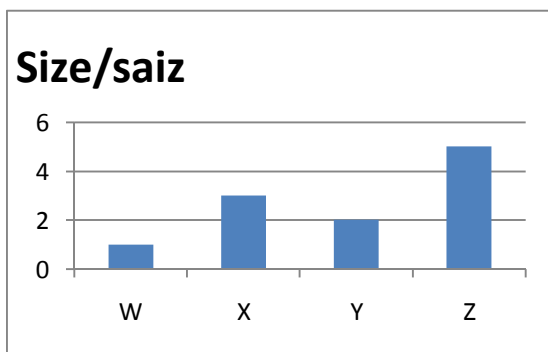
*Maklumat berikut membandingkan saiz empat kotak. Semua kotak diperbuat daripada bahan yang sama.*

- Box W is smaller than box Y.  
*Kotak W lebih kecil daripada kotak Y.*
- Box X is smaller than box Z but bigger than box Y.  
*Kotak X lebih kecil daripada kotak Z tetapi lebih besar daripada kotak Y.*

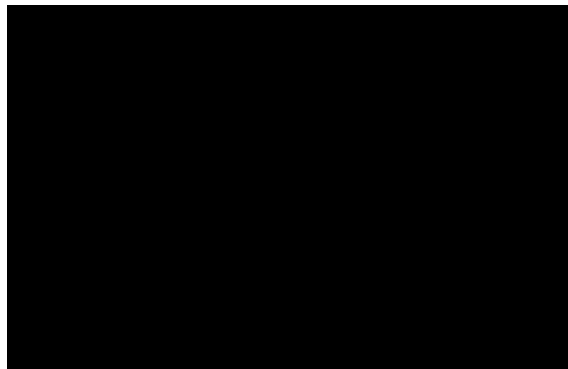
Which of the following bar charts represents the information?

*Antara carta palang berikut, yang manakah mewakili maklumat tersebut?*

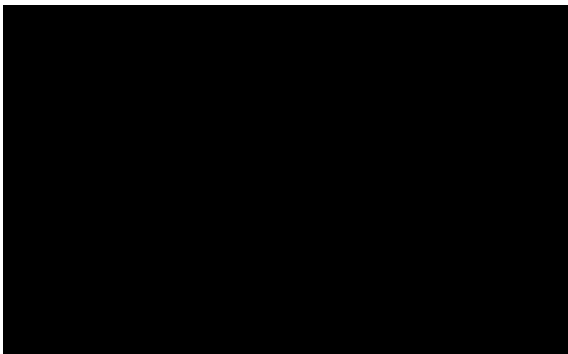
**A**



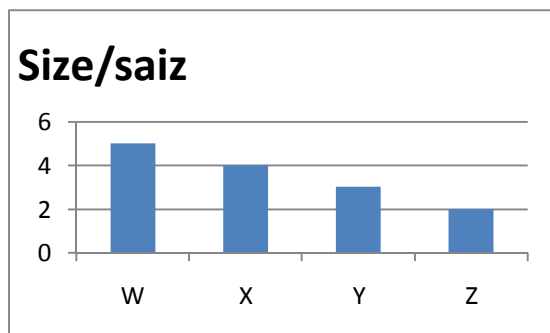
**C**



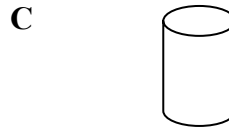
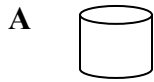
**B**



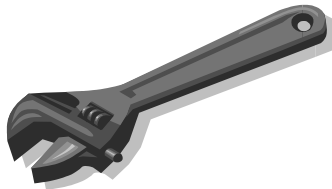
**D**



- 29 Which is the most unstable object ?  
*Objek manakah yang paling tidak stabil ?*



30. Diagram below shows a tool.  
*Rajah di bawah menunjukkan sebuah alat.*



Name the simple machine applied ?  
*Namakan mesin ringkas yang digunakan ?*

- |          |  |          |                        |
|----------|--|----------|------------------------|
| <b>A</b> | Wheel and Axle<br><i>Roda dan Gandar</i> | <b>C</b> | Pulley<br><i>Takal</i> |
| <b>B</b> | Screw<br><i>Skru</i>                     | <b>D</b> | Lever<br><i>Tuas</i>   |

## SECTION B

Answer all question.

*Jawab semua soalan.*

The suggested time for this section is 30 minutes. If you are not able to answer a question, proceed to the next question. Write your answers in the spaces provided.

*Masa yang dicadangkan untuk bahagian ini ialah 30 minit. Sekiranya kamu tidak dapat menjawab sesuatu soalan, teruskan menjawab soalan berikutnya. Tuliskan jawapan kamu dalam ruang yang disediakan.*

1. An experiment is carried to study about the basic needs of plants by following the steps below.

*Satu eksperimen dijalankan untuk menyiasat keperluan asas tumbuhan dengan mengikuti langkah-langkah berikut.*



Plant A  
*Tumbuhan A*



Plant B  
*Tumbuhan B*

— Black box

- (a) Two similar balsam plants are used.  
*Dua pokok keembung yang serupa digunakan.*
- (b) Plant A is left outside the classroom. Plant B is put inside a big black box.  
*Tumbuhan A diletakkan di luar kelas. Tumbuhan B diletakkan di dalam sebuah kotak besar berwarna hitam.*
- (c) Both plants are watered with the same amount of water everyday.  
*Kedua-dua tumbuhan-tumbuhan disiram dengan jumlah air yang sama setiap hari*
- (d) The plants are observed after one week.  
*Pemerhatian dibuat selepas seminggu.*



Observation:  
*Pemerhatian:*

Plant A	:	grows well
<i>Tumbuhan A</i>	:	<i>tumbuh dengan segar</i>
Plant B	:	leaves turn yellowish
<i>Tumbuhan B</i>	:	<i>Daun berubah kekuning-kuningan</i>

- (a) State one reason (inference) based on the observation above.  
*Nyatakan satu inferens berdasarkan pemerhatian di atas.*

---

---

[1 mark]  
[1 markah]

- (b) State another observation to support the inference in 1(a).  
*Nyatakan satu pemerhatian bagi menyokong inferens di 1(a).*

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[1 mark]  
[1 markah]

- (c) State one variable that is kept the same (constant) in this experiment.  
*Nyatakan satu pembolehubah yang dimalarkan dalam eksperimen ini.*

---

[1 mark]  
[1 markah]

- (d) What can you conclude from this experiment?  
*Apakah kesimpulan yang boleh kamu buat berdasarkan eksperimen ini?*

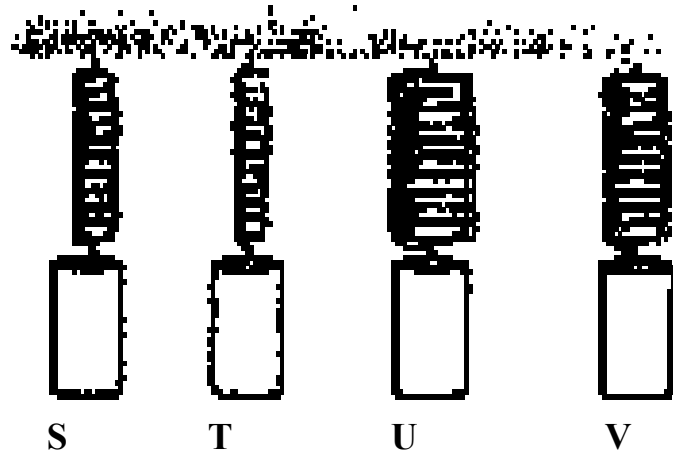
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[1 mark]  
[1 markah]

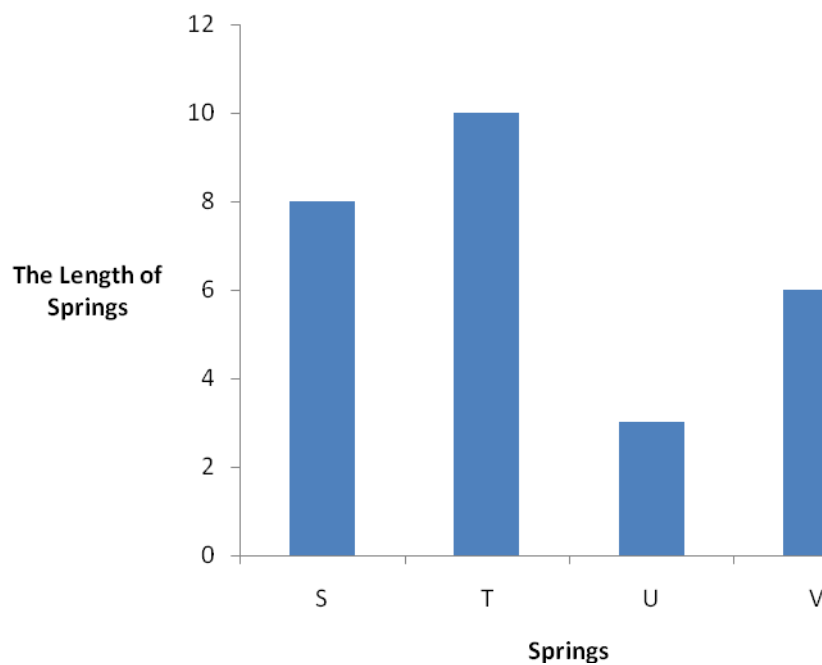
2. A group of pupils conducted an investigation to test the stretching of springs S, T, U and V. A load of 50g was suspended to each spring.

*Sekumpulan murid telah menjalankan satu penyiasatan untuk menguji pemanjangan spring S, T, U dan V. Satu beban seberat 50g digantung pada setiap spring.*



The length of each spring was measured and the result is shown in the diagram below.

*Panjang setiap spring diukur dan keputusan sebagaimana rajah di bawah.*



- (a) What is the aim (purpose) of this experiment?

*Apakah tujuan penyiasatan ini?*

---

---

[1 mark]  
[1 markah]

(b) Based on this experiment, state:

*Berdasarkan eksperimen ini, nyatakan :*

(i) What is changed ( manipulated variable )

*Apakah yang diubah ( pembolehubah yang dimanipulasikan )*

[1 mark]

[1 markah]

(ii) What is kept the same (constant variable)

*Apakah yang disamakan ( pembolehubah yang dimalarkan )*

[1 mark]

[1 markah]

(c) What conclusion can be made from this experiment?

*Apakah kesimpulan yang dapat dibuat berdasarkan eksperimen ini?*

[1 mark]

[1 markah]

3. In an experiment, a pupil uses several paper clips and a magnet. The observation is recorded in the table below:

*Dalam suatu eksperimen seorang murid menggunakan beberapa klip kertas dan sebatang magnet. Pemerhatian dari eksperimen telah direkodkan di dalam jadual di bawah:*

<b>Part of Magnet</b> <b>Bahagian Magnet</b>	<b>Number of paper clips attracted.</b> <b>Bilangan klip kertas yang ditarik.</b>
Left end <i>Bahagian hujung kiri</i>	6
Middle <i>Tengah</i>	3
Right end <i>Bahagian hujung kanan</i>	6

(a) What is the aim (purpose) of the investigation?

*Apakah tujuan penyiasatan ini?*

[1 mark]

[1 markah]

- (b) State two information that are gathered in this investigation.  
*Nyatakan dua maklumat yang dikumpul dalam penyiasatan ini.*

1. \_\_\_\_\_
2. \_\_\_\_\_

[1 mark]

[1 markah]

- (c) Make a suitable conclusion from this experiment  
*Buat satu kesimpulan yang sesuai dari eksperimen ini.*

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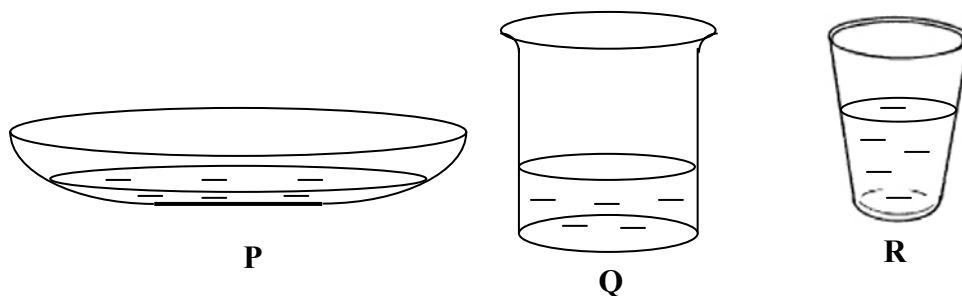


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[1 mark]

[1 markah]

4. The diagram below shows a set of apparatus that are used in an investigation  
*Gambarajah di bawah menunjukkan radas yang digunakan dalam satu penyiasatan.*



- i) Husna pours 20 ml of water into each container.  
*Husna memasukkan 20 ml air ke dalam setiap bekas*
- ii) She places the containers in the school field,  
*Dia meletakkan bekas-bekas itu di padang sekolah*
- iii) The time taken for all the water to evaporate are recorded  
*Masa yang diambil untuk semua air menyejat dicatat*
- iv) The results are shown in the table below.  
*Keputusan ditunjukkan dalam jadual di bawah.*

Container <i>Bekas</i>	Time of evaporation / hour <i>Masa menyejat / jam</i>
P	1
Q	3
R	5

- (a) What is the aim of this investigation?

*Apakah tujuan penyiasatan ini?*

---

---

[1 mark]

[1 markah]

- (b) Based on this experiment, state:

*Berdasarkan eksperimen ini, nyatakan :*

- (i) What is changed ( manipulated variable )

*Apakah yang diubah ( pembolehubah yang dimanipulasikan )*

---

[1 mark]

[1 markah]

- (ii) What is observe (responding variable)

*Apakah yang diperhatikan ( pembolehubah bergerak balas )*

---

[1 mark]

[1 markah]

- (c) Make a suitable conclusion from this experiment

*Buat satu kesimpulan yang sesuai dari eksperimen ini.*

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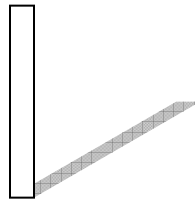
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[1 mark]

[1 markah]

5. Diagram below shows the shadow of a wooden ruler under bright sunlight.

*Rajah di bawah menunjukkan bayang pembaris kayu di bawah sinaran matahari.*



The following table shows the length of the shadows for every one hour.

*Jadual berikut menunjukkan panjang bayang tersebut setiap satu jam.*

Time <i>Waktu</i>	8.00 am	9.00 am	10.00 am	11.00 am
The length of the shadow (cm) <i>Panjang Bayang</i>	50 cm	40 cm	30 cm	20 cm

- (a) What is the trend of change of the length of the shadows from 8.00 am until 11.00 am?

*Apakah corak panjang bayang dari pukul 8.00 pagi hingga 11.00 pagi?*

---

[1 mark]  
[1 markah]

- (b) Predict the length of the shadow at 12.00 noon.

*Ramalkan panjang bayang pada pukul 12.00 tengahari.*

---

[1 mark]  
[1 markah]

- (c) In this fair test (experiment),

*Dalam eksperimen ini,*

- (i) What is kept the same (constant variable)?

*Apa yang dimalarkan (Pembolehubah malar)?*

---

[1 mark]  
[1 markah]

- (ii) What is measured (responding variable)?

*Apa yang diukur (pembolehubah bergerakbalas)?*

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[1 mark]  
[1 markah]

- (c) Make a suitable conclusion from this experiment

*Buat satu kesimpulan yang sesuai dari eksperimen ini.*

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[1 mark]  
[1 markah]

## SKEMA JAWAPAN

### Bahagian A

1	A	7	B	13	B	19	C	25	B
2	B	8	B	14	B	20	B	26	B
3	C	9	B	15	C	21	C	27	A
4	C	10	A	16	A	22	C	28	A
5	C	11	C	17	C	23	D	29	C
6	B	12	B	18	A	24	A	30	A

### Bahagian B

#### Soalan 1

- (a) Plant A get more sunlight (*vice versa if the inference about Plant B*)
- (b) Plant A grows well / more height / has more leaves / etc if suitable (*vice versa if the inference about Plant B*)
- (c) The type of plant
- (d) Plant need sunlight to stay alive / grow healthy

#### Soalan 2

- (a) To investigate the relationship between the size of spring with the length of spring
- (b) (i) The size of spring
- (ii) The length of spring
- (c) The size of spring increase, the length of spring decrease

#### Soalan 3

- (a) To investigate the relationship between part of magnet with the number of paper clip attracted
- (b) 1. The part of magnet
- 2. The number of paper clip attracted
- (c) The middle part of magnet attracted the least paper clips // The left end / right end part of magnet attracted the most paper clips

#### Soalan 4

- (a) To investigate the relationship between the size of container / container surface with the time of evaporation.
- (b) (i) The size of container / the size of container surface
- (ii) The time of evaporation
- (c) The size of container / container surface increase, the time of evaporation decrease

#### Soalan 5

- (a) Decrease
- (b) 10 cm
- (c) (i) The place of investigation
- (ii) The length of the shadow
- (iii) The time increase, the length of shadow decrease