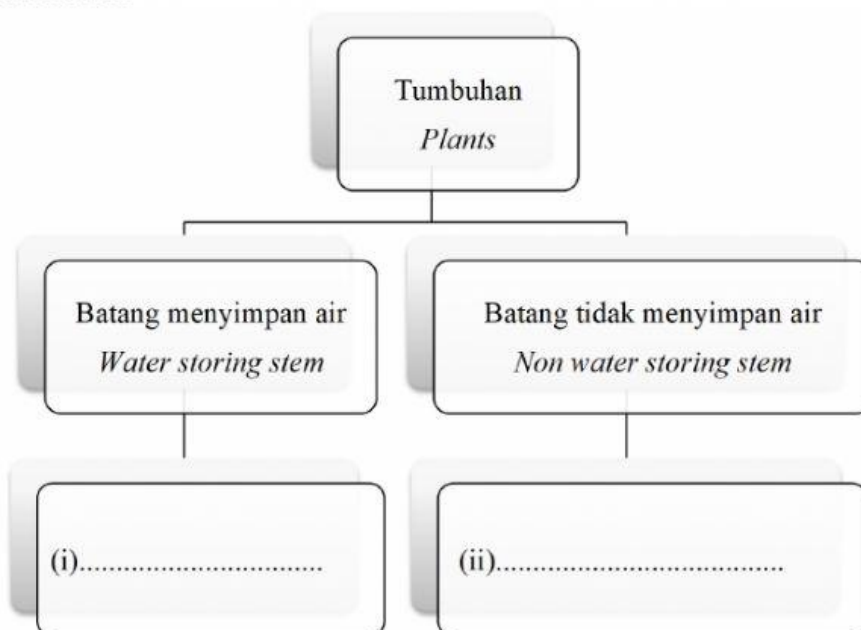


1. Jadual 1 menunjukkan ciri-ciri tumbuhan melindungi diri daripada cuaca panas melampau.
Table 1 shows the characteristics of plants to protect themselves from extreme hot weather.

Tumbuhan <i>Plants</i>	Batang menyimpan air <i>Water storing stem</i>	Daun berbentuk jarum <i>Needle shaped leaves</i>	Akar panjang <i>Long Roots</i>
Kaktus <i>Cactus</i>	√	√	√
Pokok Pisang <i>Banana Tree</i>	√	X	X
Pokok kunyit <i>Tumeric Plant</i>	X	X	X

Jadual 1
Table 1

- (a) Berdasarkan maklumat dalam Jadual 1, kelaskan tumbuhan mengikut ciri-ciri berikut.
Based on the information in Table 1, classify the plants according to the following characteristics.



[1 mark]

(b) Berdasarkan maklumat dalam Jadual 1, nyatakan tumbuhan yang mempunyai batang menyimpan air dan tidak berakar panjang.

Based on the information in Table 1, state the plant which has water storing stem and does not have long roots.

.....
.....

[1 mark]

(c) Nyatakan **satu** ciri yang berbeza di antara pokok kaktus dan pokok kunyit.

*State **one** difference characteristic between cactus and turmeric plant.*

.....

[1 mark]

(d) Nyatakan **satu** kepentingan tumbuhan kepada manusia.

*State **one** importance of plants to humans.*

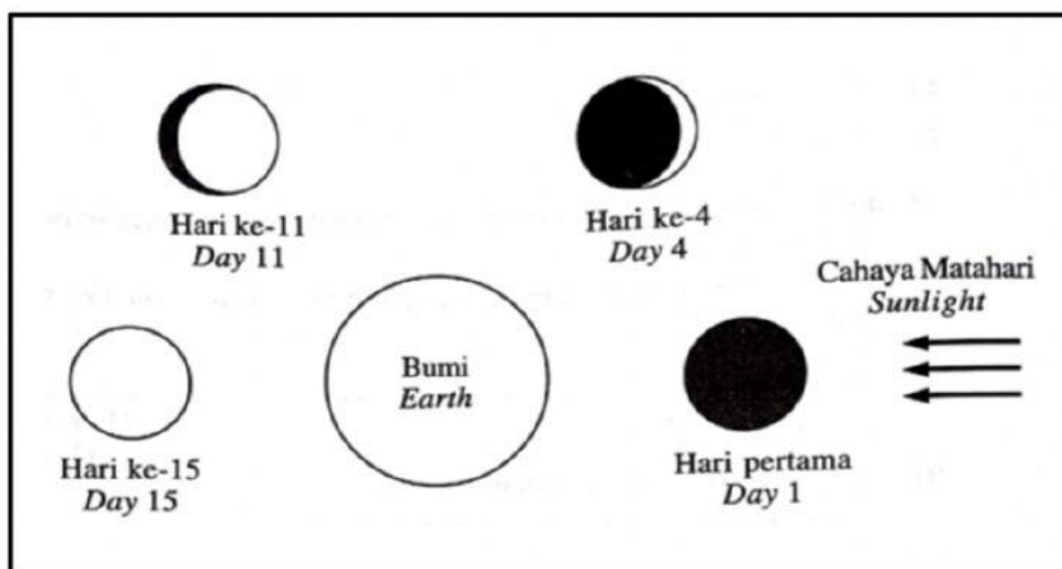
.....

.....

[1 mark]

2. Rajah 2 menunjukkan saiz fasa Bulan yang dapat dilihat dari Bumi pada hari-hari tertentu dalam Takwim Qamari.

Diagram 2 shows the size of the phases of the Moon that can be seen from the Earth on certain days in the Lunar Calendar.



Rajah 2
Diagram 2

- (a) Berdasarkan situasi di atas, nyatakan:

Based on the situation above, state:

- (i) Pemboleh ubah dimanipulasi,

The manipulated variable,

.....

[1 mark]

- (ii) Pemboleh ubah dimalarkan.

The constant variable.

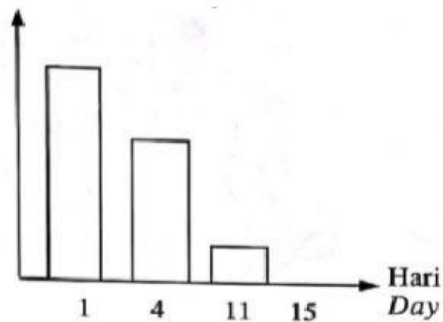
.....

[1 mark]

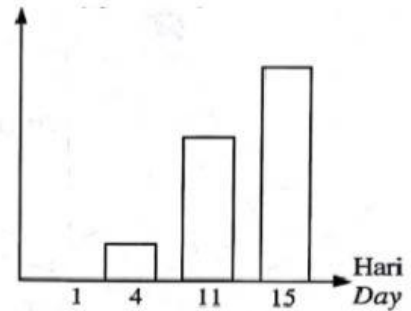
- (b) Tandakan ($\checkmark$) pada kotak di bawah bagi carta palang yang mewakili saiz fasa Bulan yang kelihatan berdasarkan Rajah 2.

Tick ($\checkmark$) in the box below the bar chart that represents the size of phases of the Moon that can be seen based on Diagram 2.

Saiz fasa Bulan
Size of phases of the Moon


☐

Saiz fasa Bulan
Size of phases of the Moon


☐

[1 mark]

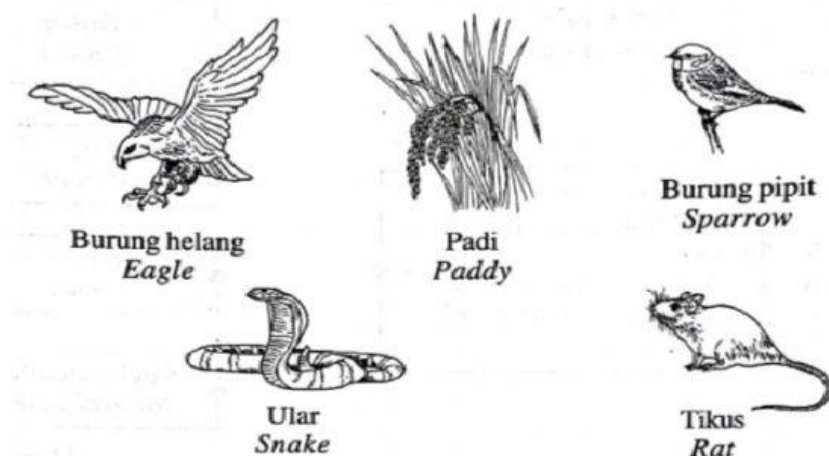
- (c) Lukis bentuk Bulan yang kelihatan dari Bumi pada Hari ke-22 dalam Takwim Qamari.

Draw the shape of the Moon that can be seen from the Earth on Day 22 in the Lunar Calendar.



[1 mark]

3. Rajah 3 menunjukkan beberapa jenis hidupan dalam satu habitat.
Diagram 3 shows several types of living things in a habitat.



- (a) Berdasarkan Rajah 3, bina satu siratan makanan.
Based on Diagram 3, draw one food web.



[2 marks]

- (b) Jadual 3 menunjukkan keputusan penyiasatan yang dijalankan oleh sekumpulan murid terhadap bilangan tikus dalam habitat yang sama.

Table 3 shows the results of an investigation carried out by a group of pupils on the number of rats in the same habitat.

Bulan <i>Month</i>	1	2
Bilangan tikus <i>Number of rats</i>	200	50

Jadual 3

Table 3

- (i) Berdasarkan Jadual 3, nyatakan **satu** pemerhatian.

*Based on Table 3, state **one** observation.*

.....

.....

[1 mark]

- (ii) Berdasarkan pemerhatian anda di 3(b)(i), nyatakan **satu** inferens.

*Based on your observation in 3(b)(i), state **one** inference.*

.....

.....

[1 mark]

- (iii)

Hasil pengeluaran padi dipengaruhi oleh bilangan tikus.
The paddy production is affected by the number of rats.

Berdasarkan pernyataan di atas, nyatakan **satu** hipotesis.

*Based on the statement above, state **one** hypothesis.*

.....

.....

[1 mark]

4. Satu penyiasatan telah dijalankan untuk mengenal pasti sifat kimia bahan J dan bahan K dengan menggunakan kertas litmus. Keputusan penyiasatan ditunjukkan dalam Jadual 4.1
An investigation has been carried out to identify the chemical properties of substances J and K by using litmus paper. The results of the investigation are shown in Table 4.1

Bahan <i>Substance</i>	Perubahan warna kertas litmus <i>Change in colour of litmus paper</i>
L	Merah → Biru <i>Red Blue</i>
K	Biru → Merah <i>Blue Red</i>

Jadual 4.1
Table 4.1

- (a) Berdasarkan Jadual 4.1, tulis satu pemerhatian.
Based on Table 4.1, write one observation.

.....

[1 mark]

- (b) Nyatakan satu contoh bagi bahan
State one example for substance

L :

K :

[2 marks]

Satu penyiasatan lain dijalankan untuk mengenal pasti sifat kimia bahan L. Jadual 4.2 menunjukkan keputusan penyiasatan itu.

Another investigation has been carried out to identify the chemical properties of substance L. Table 4.2 shows the results of the investigation.

Bahan <i>Substance</i>	Perubahan warna kertas litmus <i>Change in colour of litmus paper</i>	Sifat kimia bahan <i>Chemical properties of substances</i>
L	Biru → Biru <i>Blue Blue</i> Merah → Merah <i>Red Red</i>	Neutral

Jadual 4.2

Table 4.2

(a) Apakah definisi secara operasi bahan neutral?

What is the operational definition of neutral substance?

.....

.....

[1 mark]

(b) Ali ingin menguji sifat kimia suatu bahan makanan di rumahnya tetapi tidak mempunyai kertas litmus. Apakah yang Ali patut buat?

Ali wants to determine the chemical properties of a type of food at home but he does not have a litmus paper. What should Ali do?

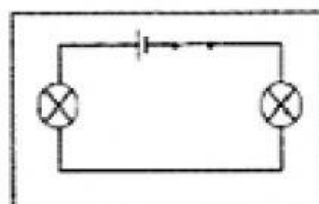
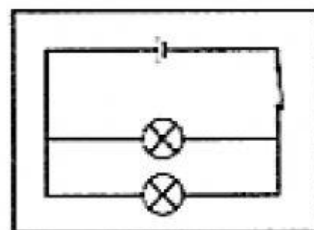
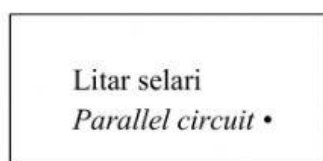
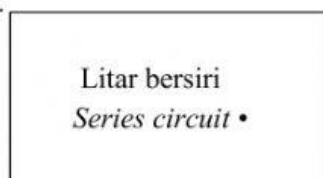
.....

.....

[1 mark]

5. Rajah 5 menunjukkan dua jenis litar elektrik
Diagram 5 illustrates two types of circuits.

- (a) Padankan litar dengan betul
Match the circuit correctly.



[2 marks]

- (b) Nyatakan satu kelebihan litar selari
State the advantage of parallel circuit.

.....

.....

[1 mark]