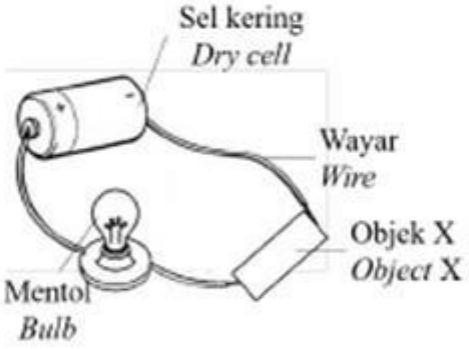
Rajah menunjukkan satu set litar elektrik yang digunakan untuk menguji keadaan mentol dengan menggunakan objek yang berbeza.
Diagram shows a set of electrical circuits used to test the condition of a bulb by using different objects.



Jadual di bawah menunjukkan keputusan penyiasatan.
Table below shows the results of the investigation.

Jenis Objek *Type of object*	Keadaan Mentol *Condition of the bulb*	
	Menyala *Light up*	Tidak Menyala *Did not light up*
Kunci *Key*	√	
Blok kaca *Glass block*		√
Rod karbon *Carbon rod*	√	
Pembaris plastic *Plastic ruller*		√

LIVEWORKSHEETS

Pilihan Jawapan

Jenis Objek | Kunci | Kerana kunci boleh mengalirkan arus elektrik

Blok Kaca | Keadaan Mentol | Rod Karbon | Mentol Menyala

Taip jawapan anda

2 (a) Berdasarkan penyiasatan, nyatakan
Based on the investigation, state :

(i) pemboleh ubah dimanipulasikan
manipulated variable :

.....

(ii) pemboleh ubah bergerak balas
responding variable :

.....

[2 *markah*]
[2 *marks*]

(b) Tuliskan satu pemerhatian apabila kunci digunakan di dalam litar.
Write one observation when the key is used in the circuit.

.....

.....

[1 *markah*]
[1 *mark*]

(c) Berdasarkan pemerhatian di (b), nyatakan satu alasan.
Based on the observation in (b), *state a reason.*

.....

.....

[1 *markah*]
[1 *mark*]

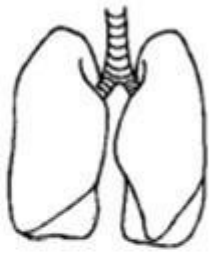
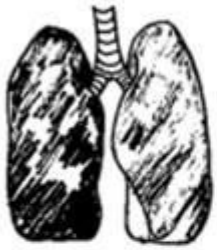
(d) Kelaskan objek dalam penyiasatan ini mengikut kebolehan mengalirkan arus elektrik.
Classify the objects in this investigation according to their ability to conduct electricity.

Mengalirkan arus elektrik *Conduct electricity*	Tidak mengalirkan arus elektrik *Does not conduct electricity*
(i) ..... (ii)	(i) ..... (ii) .....

[2 *markah*]
[2 *marks*]

LIVEWORKSHEETS

Rajah menunjukkan organ yang sama bagi dua orang pesakit yang berbeza.
Diagram shows the same organ in two different patients.

	
Pesakit J *Patient* J	Pesakit K *Patient* K

Taip jawapan anda

3 (a) Berdasarkan rajah di atas, nyatakan
Based on the diagram above, state:

(i) Organ
Organ:

.....

(ii) Proses terlibat.
Process involved :

.....

[2 *markah*]
[2 *marks*]

(b) Nyatakan dua hasil bahan buangan daripada organ di atas.
State two waste products of the above organ.

(i) ..... (ii) .....

[2 *markah*]
[2 *marks*]

(c) Pesakit K sering mengalami masalah kesihatan berkaitan dengan organ tersebut. Cadangkan dua cara yang perlu diambil oleh pesakit K untuk meningkatkan tahap kesihatan organnya.
Patient K *often suffers from the health problem regarding the organ. Suggest two methods that need to be taken by patient* K *to improve the health of the organ*

(i) .....

(ii) .....

[2 *markah*]
[2 *marks*]

LIVEWORKSHEETS

(d) Bandingkan dan terangkan perbezaan keadaan organ pesakit J dan pesakit K.
Compare and explain the difference of organ's condition between patient J and patient K.

Pesakit *Patient*	Keadaan organ *Organ's condition*	Penerangan *Explanation*
J	Normal *Normal*	....
K	Tidak normal *Abnormal*	....

[2 *markah*]
[2 *marks*]

(e)

Semasa musim jerebu, Pesakit J mengurangkan aktiviti di luar rumah dan menggunakan penapis udara ketika berada di dalam rumah. *During the haze season, Patient J reduces outdoor activities and uses air filter indoor.*

Tindakan pesakit J adalah betul. Berikan **dua** penerangan yang menyokong tindakan tersebut.
The actions of patient J are correct. Give two explanations that support the action.

(i) .....

(ii) .....

[2 *markah*]
[2 *marks*]

LIVEWORKSHEETS