

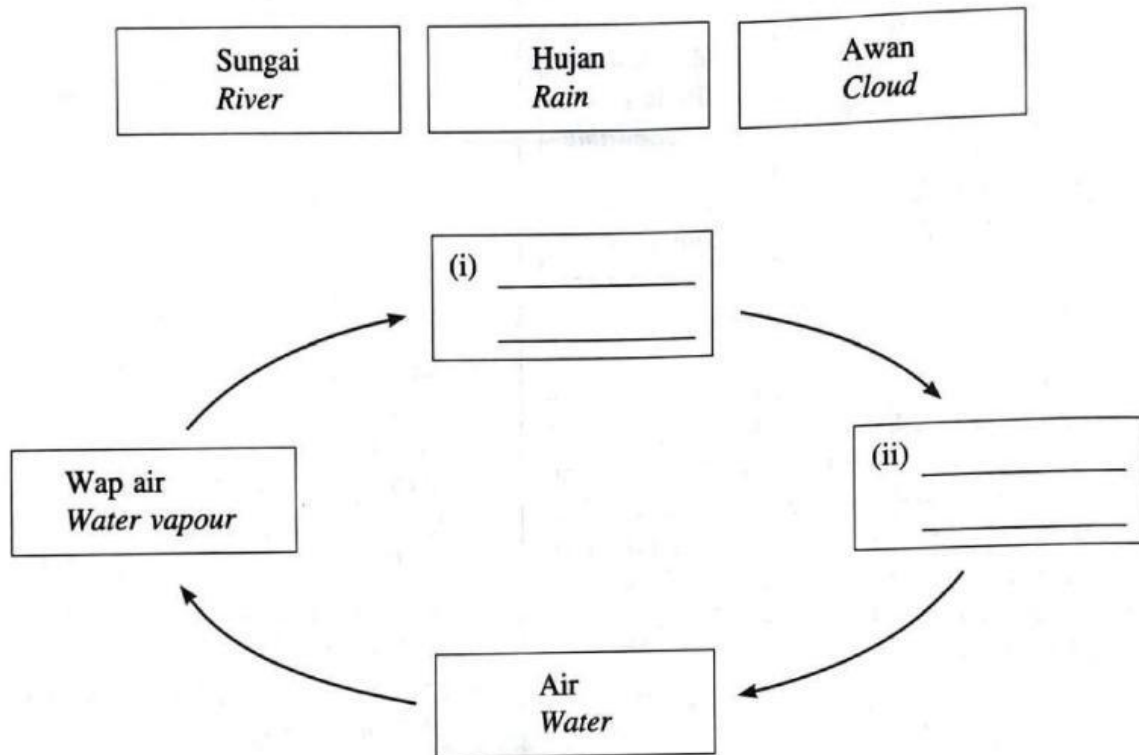
BAHAGIAN B

[8 markah]

[8 marks]

Jawab **semua** soalan.Answer **all** questions.

- 1 (a) Lengkapkan rajah kitaran air semula jadi di bawah.
 Complete the diagram of the natural water cycle below.



[2 markah]

[2 marks]

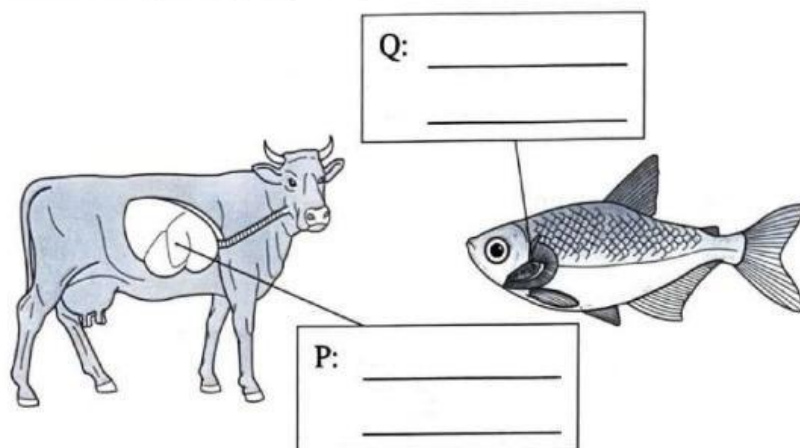
- (b) Tandakan (✓) pada kesan angin yang membantu kehidupan manusia.
 Tick (✓) the effects of wind that benefit human life.

Untuk memutarakan kincir angin To turn a windmill	
Untuk memusnahkan harta benda To destroy property	
Untuk mengancam nyawa hidupan To threaten the lives of living things	
Untuk mengeringkan pakaian di ampaian To dry clothes on a clothesline	

[2 markah]

[2 marks]

- 2 Rajah 1.1 menunjukkan organ pernafasan dua jenis haiwan.
 Diagram 1.1 shows the respiratory organs of two types of animals.



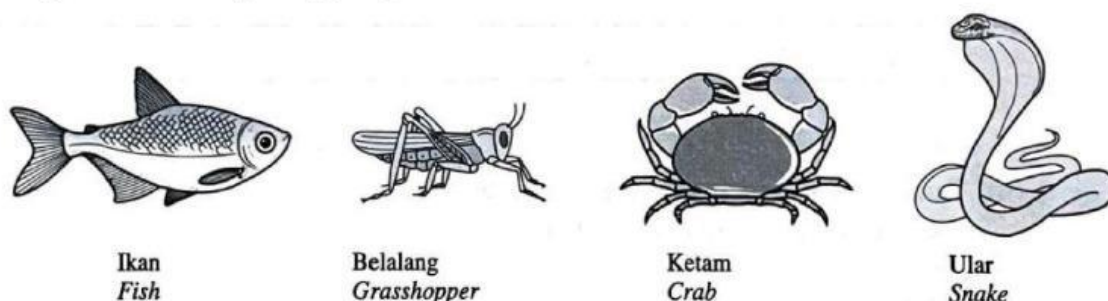
Rajah 1.1
 Diagram 1.1

Nyatakan organ pernafasan P dan Q.
 State the respiratory organs P and Q.

Insang Gills	Spirakel Spiracles	Peparu Lungs
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[2 markah]
 [2 marks]

- (b) Rajah 1.2 menunjukkan empat jenis haiwan.
 Diagram 1.2 shows four types of animals.



Rajah 1.2
 Diagram 1.2

Kelaskan haiwan tersebut mengikut jenisnya.
 Classify the animals according to their types.

Haiwan vertebrata Vertebrates	Haiwan invertebrata Invertebrates

[2 markah]
 [2 marks]

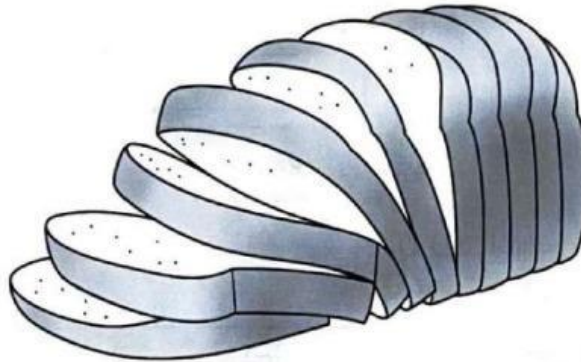
BAHAGIAN C

[32 markah]

[32 marks]

Jawab **semua** soalan.Answer **all** questions.

1 Rajah 1.1 menunjukkan sejenis makanan.

Diagram 1.1 shows a type of food.

Rajah 1.1
Diagram 1.1

- (a) (i) Nyatakan kelas makanan bagi makanan ini.
State the food class of this food.

[1 markah]

[1 mark]

- (ii) Tandakan (✓) pada kepentingan makanan ini.
Tick (✓) the importance of this food.

Untuk mencegah sembelit <i>To prevent constipation</i>
Untuk memanaskan badan <i>To keep the body warm</i>
Untuk memberikan tenaga <i>To provide energy</i>
Untuk mengawal suhu badan <i>To regulate body temperature</i>

[1 markah]

[1 mark]

- (b) Rajah 1.2 menunjukkan Farid mengalami masalah untuk membuang air besar. Tandakan (✓) pada cara yang betul Farid mengatasi masalah ini.
 Diagram 1.2 shows Farid having difficulty in passing stool. Tick (✓) the correct ways Farid can overcome this problem.

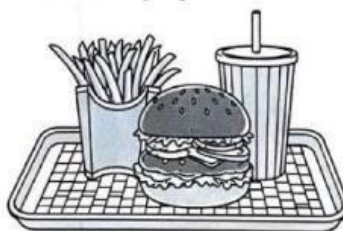


Rajah 1.2
Diagram 1.2

Tidur 8 jam sehari <i>Sleep 8 hours a day</i>	
Minum air secukupnya <i>Drink enough water</i>	
Melakukan senaman yang berat <i>Do heavy exercise</i>	
Makan lebih banyak buah-buahan dan sayur-sayuran <i>Eat more fruits and vegetables</i>	

[2 markah]
[2 marks]

- (c) Rajah 1.3 menunjukkan satu hidangan makanan yang diambil oleh Amir.
 Jawab **YA** atau **TIDAK**.
 Diagram 1.3 shows a meal eaten by Amir. Answer **YES** or **NO**.

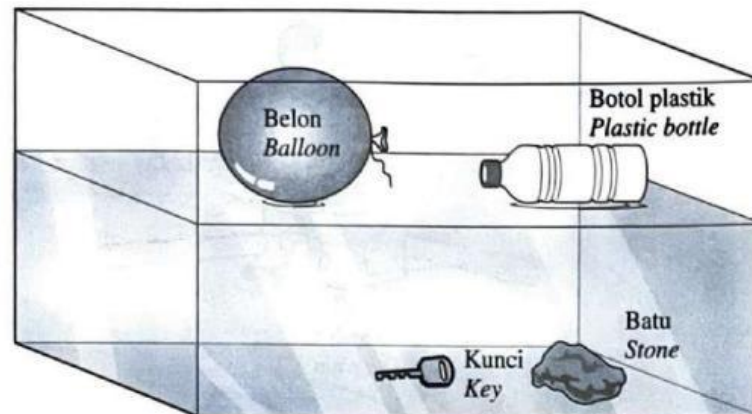


Rajah 1.3
Diagram 1.3

- (i) Adakah hidangan ini seimbang?
Is this meal balanced?
-
- (ii) Bolehkah hidangan ini menyebabkan kegemukan jika diambil dengan kerap?
Can this meal cause obesity if eaten often?
-

[2 markah]
[2 marks]

- 2 Rajah 2.1 menunjukkan keputusan penyiasatan yang dijalankan untuk menentukan sifat bahan.
 Diagram 2.1 shows the results of an investigation carried out to determine the properties of materials.



Rajah 2.1
 Diagram 2.1

- (a) Nyatakan **satu** sifat bahan yang dikaji dalam penyiasatan ini.
 State **one** property of materials studied in this investigation.

[1 markah]

[1 mark]

- (b) Berdasarkan rajah di atas, kelaskan objek mengikut sifat bahannya.
 Based on the diagram above, classify the objects according to their properties.

[2 markah]

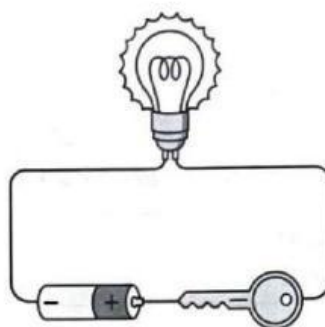
[2 marks]

- (c) Ahmad ingin membuat rakit kecil yang boleh terapung di atas air.
 Nyatakan **satu** bahan yang sesuai untuk digunakan.
 Ahmad wants to make a small raft that can float on water.
 State **one** suitable material to use.

[1 markah]

[1 mark]

- (d) Rajah 2.2 menunjukkan satu lagi penyiasatan yang dijalankan.
Diagram 2.2 shows another investigation being carried out.



Rajah 2.2
 Diagram 2.2

Apabila kunci disambungkan kepada litar, mentol menyala. Kemudian, kunci digantikan dengan pemadam.

Jawab **YA** atau **TIDAK**.

*When a key is connected to the circuit, the bulb lights up. Then, the key is replaced with an eraser. Answer **YES** or **NO**.*

- (i) Adakah mentol akan menyala?

Will the bulb light up?

- (ii) Adakah pemadam merupakan bahan yang dapat mengalirkan arus elektrik?

Is an eraser a material that can conduct electricity?

[2 markah]

[2 marks]

- 3 Rajah 3.1 menunjukkan satu persembahan pancaragam di sekolah.
Diagram 3.1 shows a school band performance.



Rajah 3.1
 Diagram 3.1

- (a) Bagaimanakah bunyi dihasilkan?
How is sound produced?

[1 markah]

[1 mark]

- (b) Nyatakan arah pergerakan bunyi. Tandakan (✓) pada jawapan yang betul.
State the direction in which sound travels. Tick (✓) the correct answer.

Bunyi bergerak ke atas sahaja Sound travels only upwards
Bunyi bergerak ke bawah sahaja Sound travels downwards only
Bunyi bergerak ke kiri dan kanan Sound travels to the left and right
Bunyi bergerak ke semua arah Sound travels in all directions

[1 markah]

[1 mark]

- (c) Rajah 3.2 menunjukkan Johan sedang bermain gitar di taman.
Diagram 3.2 shows Johan playing the guitar in the park.



Rajah 3.2
Diagram 3.2

- (i) Nyatakan cara bunyi dihasilkan daripada gitar itu.
State how sound is produced by the guitar.

[1 markah]

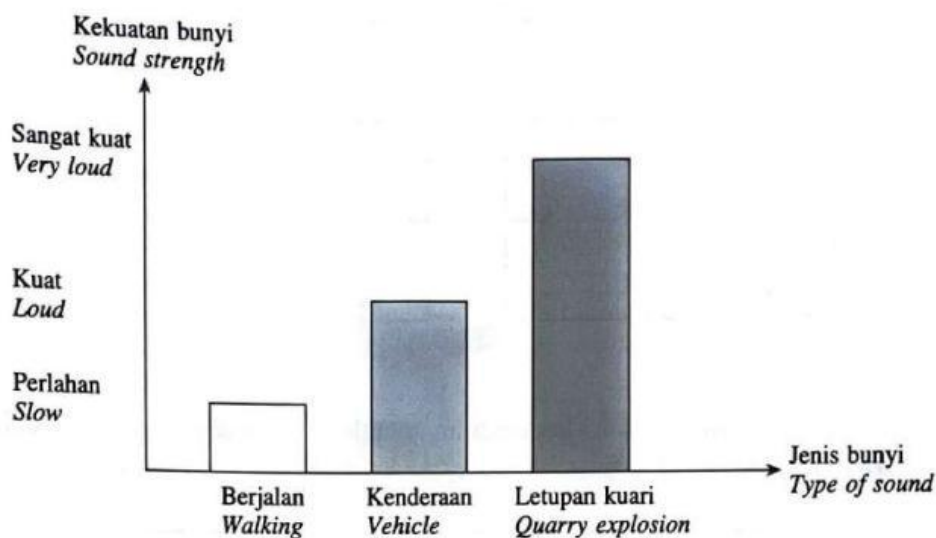
[1 mark]

- (ii) Nyatakan **satu** faedah bunyi muzik kepada manusia.
State **one** benefit of musical sounds to humans.

[1 markah]

[1 mark]

- (d) Graf palang di bawah menunjukkan tahap kekuatan bunyi yang dapat didengar oleh manusia.
The bar chart below shows the loudness level of sounds that can be heard by humans.



Rajah 3.3
 Diagram 3.3

- (i) Bunyi letupan kuari merupakan bunyi yang memudaratkan. Nyatakan **dua** kesan buruk akibat bunyi ini.
*Explosions from quarries are harmful sounds. State **two** harmful effects of this noise.*

[2 markah]

[2 marks]

- (ii) Cadangkan **dua** cara untuk mengurangkan pencemaran bunyi.
*Suggest **two** ways to reduce noise pollution.*

[2 markah]

[2 marks]

- (e) Zamri dan rakan-rakannya menjalankan kajian di sebuah gua. Sebaik sahaja mereka sampai, Zamri menjerit di dalam gua tersebut.
Zamri and his friends are conducting a study in a cave. As soon as they arrive, Zamri shouts inside the cave.



Rajah 3.4
 Diagram 3.4

- (i) Tandakan (✓) pada fenomena yang ditunjukkan dalam rajah di atas.
Tick (✓) the phenomenon shown in the diagram above.

Gema Echo	
Sonar Sonar	
Ultrasonik Ultrasonic	

[1 markah]

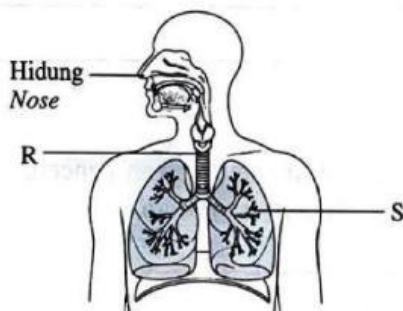
[1 mark]

- (ii) Mengapakah suara Zamri kedengaran semula selepas dia menjerit di dalam gua?
Why is Zamri's voice heard again after he shouts inside the cave?

[1 markah]

[1 mark]

- 4 Rajah 4.1 menunjukkan sistem pernafasan manusia.
Diagram 4.1 shows the human respiratory system.



Rajah 4.1
Diagram 4.1

- (a) Nyatakan organ R dan S.
State organs R and S.

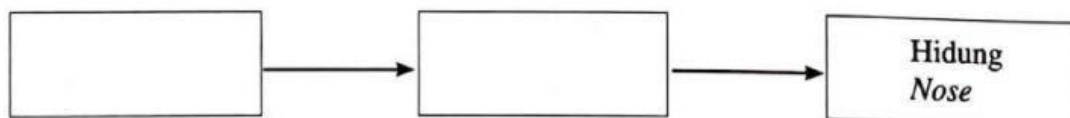
(i) Organ R: _____

(ii) Organ S: _____

[2 markah]

[2 marks]

- (b) Susun organ mengikut laluan penghembusan nafas yang betul.
Arrange the organs in the correct pathway of exhalation.



[2 markah]

[2 marks]

- (c) Nyatakan perbezaan kandungan oksigen dan karbon dioksida semasa menarik dan menghembus nafas.

State the differences in oxygen and carbon dioxide content during inhalation and exhalation.

Aspek <i>Aspect</i>	Semasa menarik nafas <i>During inhalation</i>	Semasa menghembus nafas <i>During exhalation</i>
Kandungan oksigen dalam udara <i>Oxygen content in the air</i>		
Kandungan karbon dioksida dalam udara <i>Carbon dioxide content in the air</i>		

[2 markah]

[2 marks]

- (d) Jadual 4.2 menunjukkan kadar pernafasan manusia ketika melakukan pelbagai aktiviti.

Table 4.2 shows the breathing rates of humans during different activities.

Jenis aktiviti <i>Type of activity</i>	Bilangan pergerakan dada (naik dan turun) <i>Number of chest movements (up and down)</i>	Kadar pernafasan (rendah/sederhana/tinggi) <i>Breathing rate (low/medium/high)</i>
Menonton televisyen <i>Watching television</i>	60	Rendah <i>Low</i>
Berjalan <i>Walking</i>	70	Sederhana <i>Medium</i>
Berenang <i>Swimming</i>	90	Tinggi <i>High</i>

Rajah 4.2
Diagram 4.2

Jawab YA atau TIDAK.

Answer YES or NO.

- (i) Adakah terdapat perbezaan kadar pernafasan antara setiap aktiviti di atas?
Is there a difference in breathing rate between the activity above?

- (ii) Adakah aktiviti cergas memerlukan lebih banyak oksigen?
Do vigorous activities require more oxygen?

[2 markah]

[2 marks]

- (e) Rajah 4.3 menunjukkan Azhar sedang berenang di sebuah kolam.
Diagram 4.3 shows Azhar swimming in a swimming pool.



Rajah 4.3
 Diagram 4.3

- (i) Selepas berenang selama 30 minit, kadar pernafasan Azhar menjadi sangat tinggi. Tandakan (✓) cara untuk menurunkan semula kadar pernafasannya kepada normal.
After swimming for 30 minutes, Azhar's breathing rate becomes very high. Tick (✓) the way to lower his breathing rate to normal.

Duduk <i>Sit down</i>	☐
Lari setempat <i>Running on the spot</i>	☐
Bermain bola sepak <i>Playing football</i>	☐

- (ii) Mengapakah kadar pernafasan bertambah apabila melakukan aktiviti cergas?
Why does the breathing rate increase during vigorous activities?

[2 markah]
 [2 marks]



Jawapan
 Lengkap

KERTAS UJIAN TAMAT

SET 3 - 16