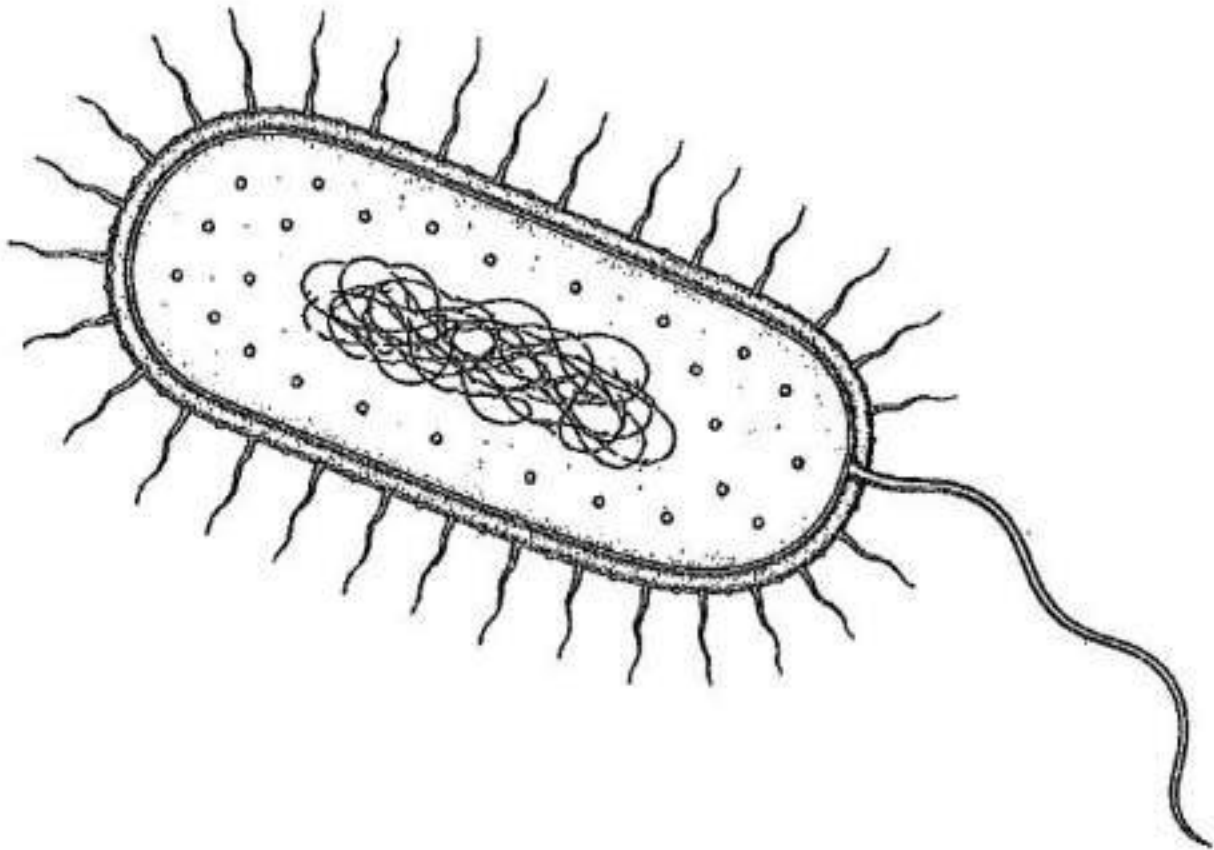


Bahagian A
Section A

[60 markah]
[60 marks]

Jawab **semua** soalan dalam bahagian ini.
*Answer **all** questions in this section.*

- 1 Rajah 1 menunjukkan sejenis bakteria primitif yang hidup dalam persekitaran yang sangat masin. Dinding selnya tidak mengandungi peptidoglikan.
Diagram 1 shows a primitive bacterium that lives in extremely salty environment. Its cell wall does not contain peptidoglycan.



Rajah 1/ Diagram 1

Berdasarkan Rajah 1,
Based on Diagram 1,

- (a) (i) Nyatakan alam dan jenis sel bagi organisma tersebut.
State the kingdom and type of cell for the organism.

- (b) (i) Jadual 1 menunjukkan hierarki taksonomi bagi organisma dalam Rajah 1.
Table 1 shows the taxonomy hierarchy for the organism in Diagram 1.

Peringkat Level	Takson Taxon
Filum / <i>Phylum</i>	Euryarchaeota
Kelas / <i>Class</i>	Halobacteria
Order / <i>Order</i>	Halobacteriales
Famili / <i>Family</i>	Halobacteriaceae
Genus / <i>Genus</i>	<i>Halobacterium</i>
Spesies / <i>Species</i>	<i>salinarum</i>

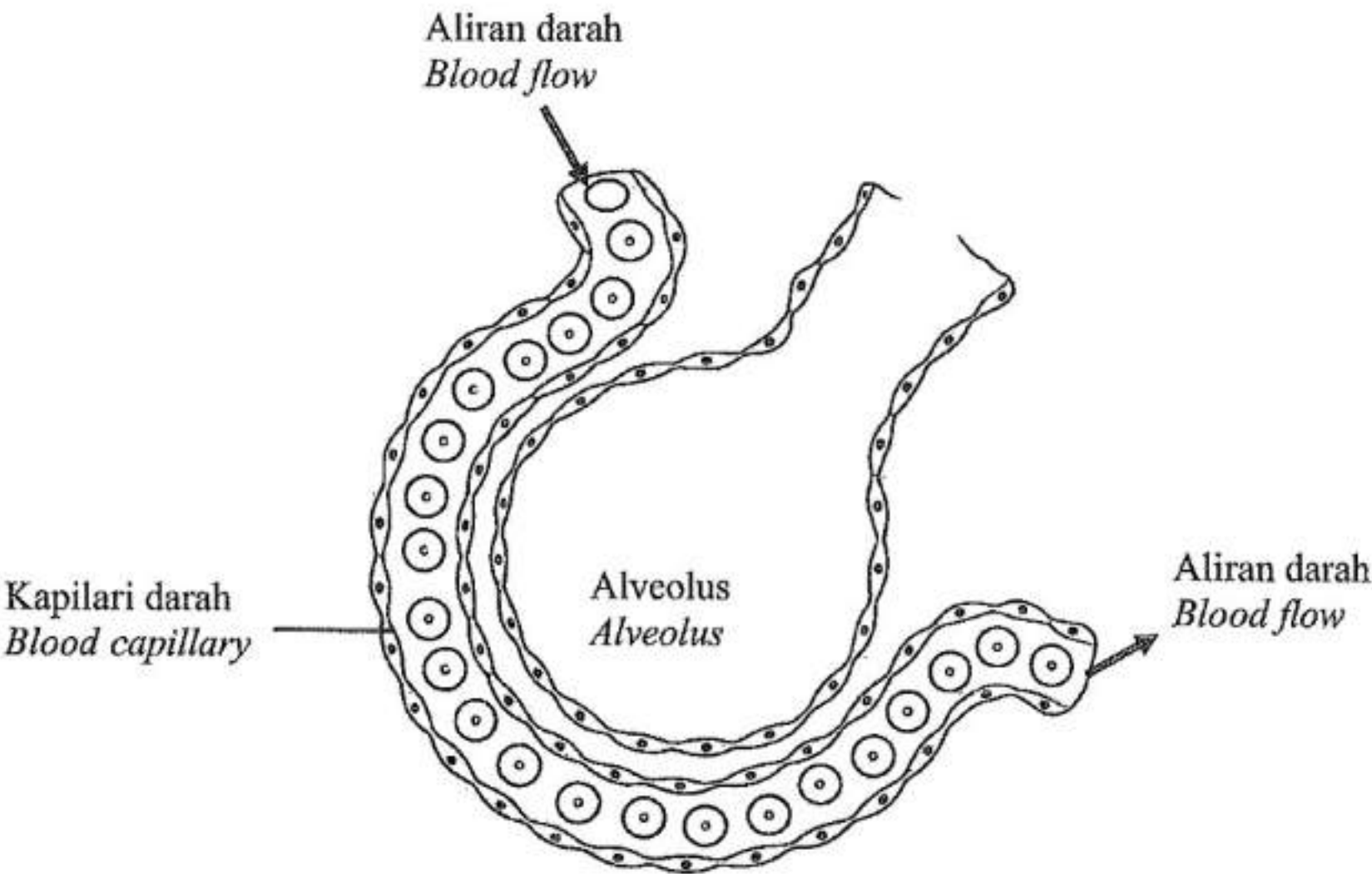
Jadual 1 / *Table 1*

Seorang murid menulis nama saintifik organisma itu sebagai *salinarum halobacterium*.
Kenal pasti dua kesilapan dalam menulis nama saintifik tersebut.
A student wrote the scientific name of the organism as salinarum halobacterium.
Identify two mistakes in writing the scientific name.

.....
.....
.....

[2 markah/*marks*]

- 2 Rajah 2.1 menunjukkan proses pertukaran gas yang berlaku di paru.
Diagram 2.1 shows gaseous exchange process that occurs in the lungs.



Rajah 2.1/ Diagram 2.1

- (a) (i) Lukiskan arah pergerakan gas oksigen dengan menggunakan (———>) dan pergerakan gas karbon dioksida dengan menggunakan (- - ->) pada Rajah 2.1.
Draw the direction of movement of oxygen gas by using (———>) and the movement of carbon dioxide gas by using (- - ->) in Diagram 2.1.
- (ii) Nyatakan pigmen dalam eritrosit yang mengangkut gas respirasi

(iii) Bezakan antara sendi J dan sendi K.
Differentiate between joint J and joint K.

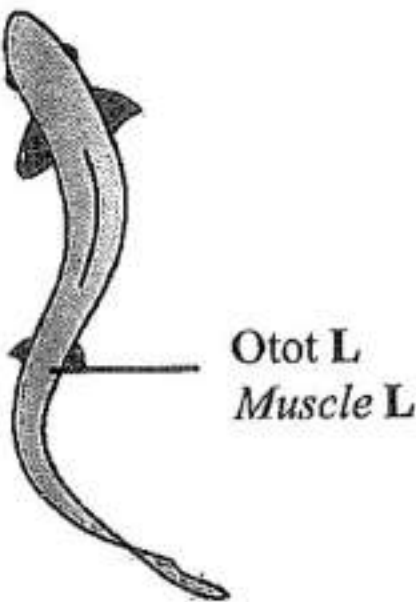
	J	K
Lokasi: <i>Location:</i>		
Fungsi: <i>Function:</i>		

[2 markah/marks]

4(a)(iii)

2

(b) Rajah 4.2 menunjukkan pergerakan seekor ikan.
Diagram 4.2 shows the movement of a fish.



Rajah 4.2/ *Diagram 4.2*

Otot L mengalami kesukaran untuk mengecut. Terangkan kesan tersebut ke atas pergerakan ikan.
Muscle L has difficulties to contract. Explain the effect on the movement of fish.

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