

SOALAN STRUKUR BAB SISTEM RESPIRASI

2. Diagram 3 shows three types of respiratory system.
Rajah 3 menunjukkan tiga jenis sistem respirasi.

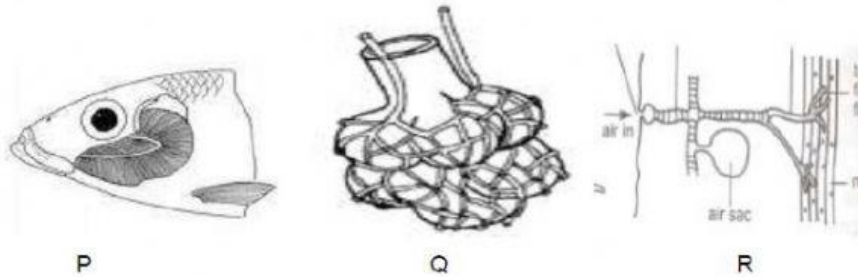


Diagram 3
Rajah 3

- (a) (i) Name the respiratory organs of organism P and Q.
Namakan organ respirasi untuk organisma P dan Q.

P:.....
Q:.....

- (ii) Explain how the adaptation of the respiratory structure of organism R prevents it from collapsing when the air pressure drops
Terangkan bagaimana penyesuaian struktur respirasi organisma R menghalangnya daripada kempis apabila tekanan udara berkurang.

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[2 mark/2 markah]

- (iii) Explain similar characteristics of the respiratory structure of organism P, Q and R which increase their efficiency in gaseous exchange.
Terangkan ciri-ciri persamaan struktur respirasi organisma P, Q dan R yang meningkatkan kecekapan pertukaran gas.

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[3 marks/3 markah]

- (b) Blood capillaries surround the respiratory structure of P and Q but are not found in R.

Why does R do not need the blood capillaries?

Kapilari darah mengelilingi struktur respirasi P dan Q tetapi tidak pada R.

Mengapakah Z tidak memerlukan kapilari darah?

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[2 marks/ 2 markah]



- (c) The frog's skin functions as the respiratory surface for the gaseous exchange in water. If the frog's body is coated by a layer of grease, explain how this affects the frog's respiration process?

Kulit katak berfungsi sebagai permukaan untuk pertukaran gas di dalam air.

Jika badan katak diselaputi oleh lapisan gris, terangkan bagaimana kesan keadaan ini memberi kesan terhadap proses respirasi katak tersebut?

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[3 marks/ 3 markah]