

SOALAN STRUKUR BAB SISTEM RESPIRASI

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

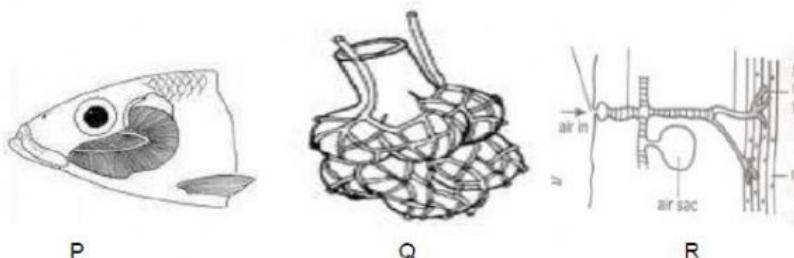


Diagram 3
Rajah 3

- (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]

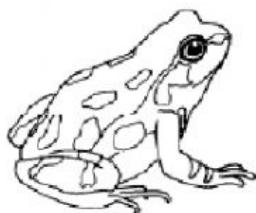
- (b) Blood capillaries surround the respiratory structure of P and Q but are not found in R.

Why does R do not need the blood capillaries?

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

Mengapa Z tidak memerlukan kapilari darah.?

[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.?

[3 marks/ 3 markah]