

Which of the following shows the correct pathway of the oxygen in a frog?

*Antara berikut, yang manakah menunjukkan laluan oksigen yang betul dalam seekor katak?*

A Buccal cavity → nostril → bronchus → glottis → lungs

*Rongga mulut → lubang hidung → bronkus → glottis → peparu*

B Nostril → buccal cavity → glottis → bronchus → lungs

*Lubang hidung → rongga mulut → glottis → bronkus → peparu*

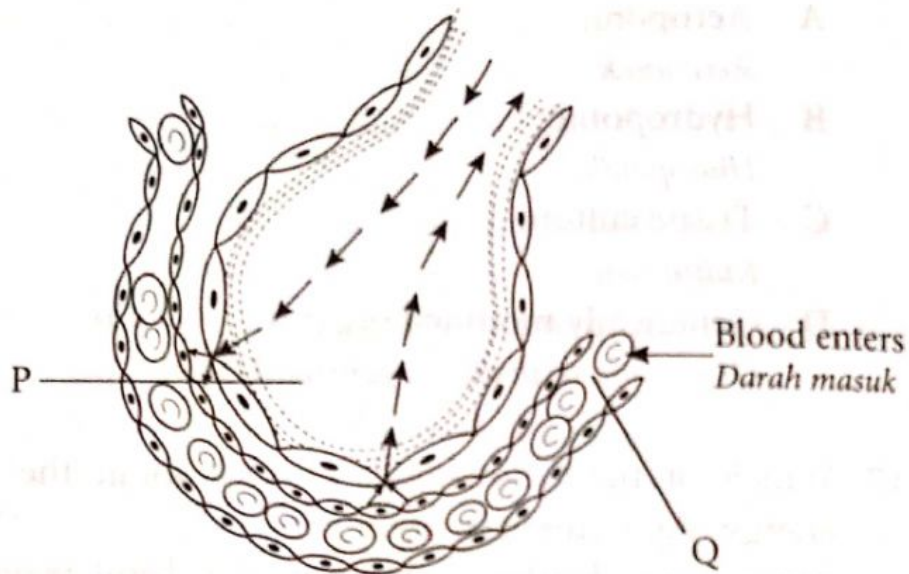
C Buccal cavity → nostril → glottis → bronchus → lungs

*Rongga mulut → lubang hidung → glottis → bronkus → peparu*

D Nostril → glottis → buccal cavity → bronchus → lungs

*Lubang hidung → glottis → rongga mulut → bronkus → peparu*

Diagram 7 shows part of the human respiratory system.  
 Rajah 7 menunjukkan sebahagian daripada sistem respirasi manusia.



**Diagram 7**  
**Rajah 7**

Which of the following shows the partial pressure of oxygen at P and Q correctly?

Antara yang berikut, yang manakah menunjukkan tekanan separa oksigen di P dan Q dengan betul?

|   | P              | Q              |
|---|----------------|----------------|
| A | High<br>Tinggi | Low<br>Rendah  |
| B | Low<br>Rendah  | High<br>Tinggi |
| C | High<br>Tinggi | High<br>Tinggi |
| D | Low<br>Rendah  | Low<br>Rendah  |

Which of the following increases the diffusion of gas into the cells during the breathing process of a dragonfly?

*Antara yang berikut, yang manakah mempercepat resapan gas ke dalam sel semasa proses pernafasan seekor pematung?*

- A The presence of valve in the spiracle  
*Kehadiran injap dalam spirakel*
- B The thin wall of tracheole  
*Dinding trakeol yang nipis*
- C The presence of chitin ring in the trachea  
*Kehadiran gelang kitin dalam trakea*
- D The expansion and contraction of the abdominal muscle  
*Pengembangan dan pengecutan otot abdomen*

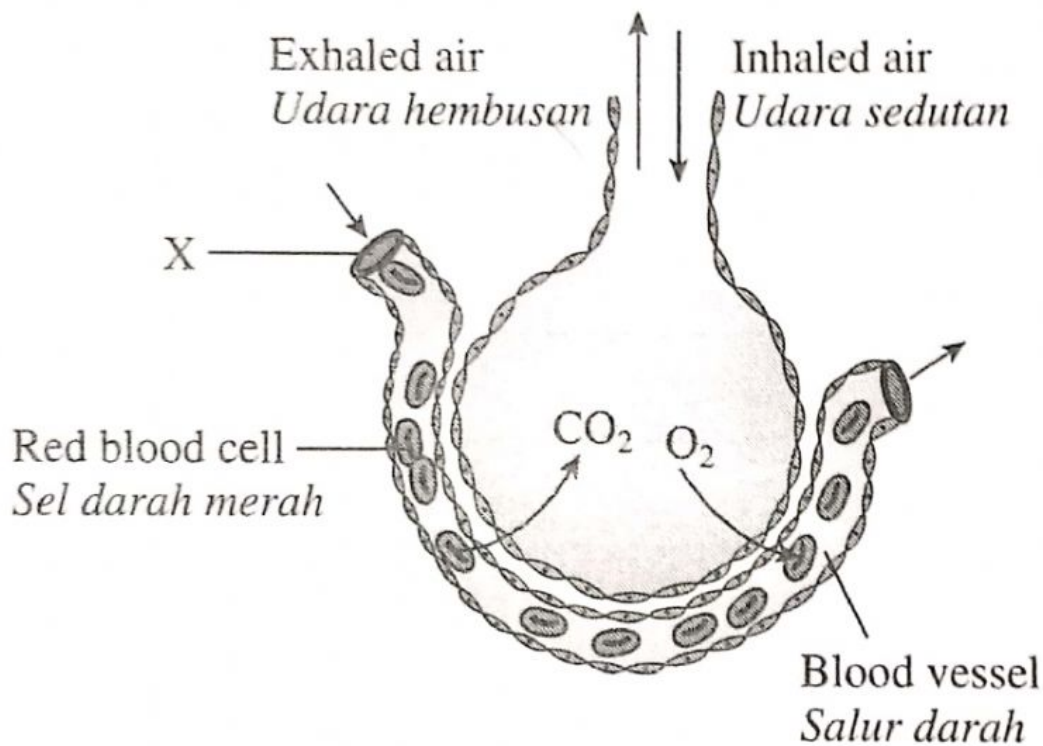


Which of the following causes a smoker to experience difficulties in breathing?

*Antara yang berikut, yang manakah mengakibatkan perokok mengalami sesak nafas?*

- I Swelling and narrowing of the lung airways  
*Bengkak dan menyempitkan laluan udara di dalam peparu*
- II Excess mucus in the lung passages  
*Mukus berlebihan pada laluan udara di dalam peparu*
- III Irritation of the trachea  
*Ketidakselesaan pada trakea*
- IV Burst in blood capillaries  
*Kapilari darah yang pecah*
- A I and II  
*I dan II*
- B I and IV  
*I dan IV*
- C II and III  
*II dan III*
- D III and IV  
*III dan IV*

- Study the diagram below.  
*Kaji rajah di bawah.*



What is the partial pressure of carbon dioxide and oxygen at X?

*Apakah tekanan separa bagi karbon dioksida dan oksigen di X?*

|   | Carbon dioxide<br><i>Karbon dioksida</i> | Oxygen<br><i>Oksigen</i> |
|---|------------------------------------------|--------------------------|
| A | Low/ <i>Rendah</i>                       | High/ <i>Tinggi</i>      |
| B | High/ <i>Tinggi</i>                      | Low/ <i>Rendah</i>       |
| C | Low/ <i>Rendah</i>                       | Low/ <i>Rendah</i>       |

Asthma is one of the diseases related to the human respiratory system.

*Asma adalah salah satu penyakit yang berkaitan dengan sistem respirasi manusia.*

What is the cause of asthma?

*Apakah yang menyebabkan asma?*

**A** Bronchiole tube becomes smaller

*Tiub bronkiol mengecil*

**B** Alveolus loses its elasticity

*Alveolus hilang sifat keanjalan*

**C** Bronchiole tube is blocked

*Tiub bronkiol tersumbat*

**D** Alveolus wall is damaged

*Dinding alveolus rosak*