

## SOALAN OBJEKTIF

- 1 Diagram 1 shows the respiratory structure of the fish.  
 P *Rajah 1 menunjukkan struktur respirasi ikan.*  
 T

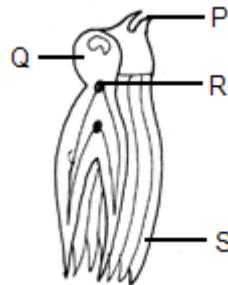


Diagram 1 / Rajah 1

Which of the following pair is correct?

*Antara padanan berikut, yang manakah benar?*

	Structure <i>Struktur</i>	Function <i>Fungsi</i>	
I.	P	Filter the food particles and sand <i>Menapis butir makanan dan pasir</i>	
II.	Q	Have one gill arch at the anterior and two rows of filaments at the posterior. <i>Mempunyai satu baris sisir insang di anterior dan dua baris filamen insang di posterior</i>	
III.	R	Increase the transportation of respiratory gases. <i>Meningkatkan proses pengangkutan gas respirasi</i>	
IV.	S	Increase the surface area for gases exchange <i>Menambahkan luas permukaan bagi pertukaran gas</i>	
A	I, II and III only <i>I, II dan III sahaja</i>	C	II, III and IV only. <i>I, III and IV sahaja</i>
B	I, III and IV only. <i>I, III dan IV sahaja</i>	D	I, II, III and IV <i>Semua I, II, III dan IV</i>

- 2 Diagram 2 shows parts P, Q, R and S of respiratory system in cockroaches.  
 F The below informations show explanation about the parts.  
 T *Rajah 2 menunjukkan bahagian-bahagian R,P,Q dan S dalam sistem respirasi seekor lipas. Maklumat di bawah menunjukkan penerangan tentang bahagian-bahagian itu.*

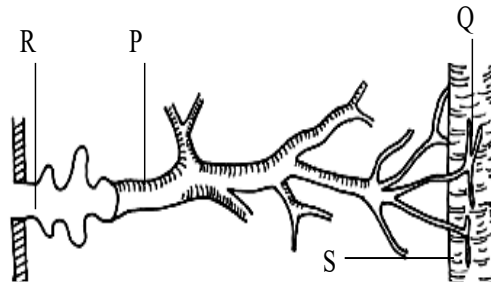
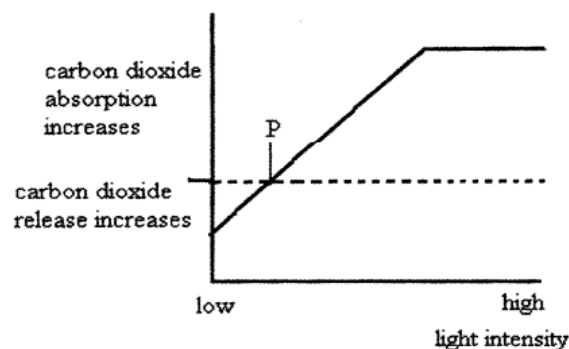


Diagram 2 / Rajah 2

Which of the following is **not** the correct explanation?  
 Antara bahagian berikut, yang manakah **tidak** benar tentang penerangannya?

A.	P	Have thickening rings to avoid it from collapsing. <i>Mempunyai penebalan bergelang untuk mencegah bahagian itu daripada terkempis</i>
B.	Q	Have thin wall filled with fluid containing dissolved gases. <i>Mempunyai dinding nipis dan berisi bendalir yang mempunyai gas-gas terlarut</i>
C.	R	Opening and closing controlled by thick cuticle. <i>Pembukaan dan penutupan dikawal oleh kutikel tebal.</i>
D.	S	Gases exchange take place by diffusion. <i>Pertukaran gas berlaku secara resapan.</i>

3 Explain what will happen at point P.  
 F Terangkan apa yang berlaku pada titik P.  
 T



- A Rate of carbon dioxide produced during respiration is equal to the rate of carbon dioxide used for photosynthesis.  
*Kadar pembebasan karbon dioksida semasa respirasi adalah bersamaan dengan kadar penggunaan karbon dioksida semasa fotosintesis.*
- B Rate of carbon dioxide produced during respiration is higher than the rate of carbon dioxide used for photosynthesis.  
*Kadar pembebasan karbon dioksida semasa respirasi melebihi kadar penggunaan karbon dioksida semasa fotosintesis.*

C Rate of carbon dioxide produced during respiration is lower than the rate of carbon dioxide used for photosynthesis.  
*Kadar pembebasan karbon dioksida semasa respirasi adalah lebih rendah dari kadar penggunaan karbon dioksida semasa fotosintesis*

D Rate of carbon dioxide produced during respiration is not equal to the rate of carbon dioxide used for photosynthesis.  
*Kadar pembebasan karbon dioksida semasa respirasi adalah tidak sama dengan kadar penggunaan karbon dioksida semasa fotosintesis.*

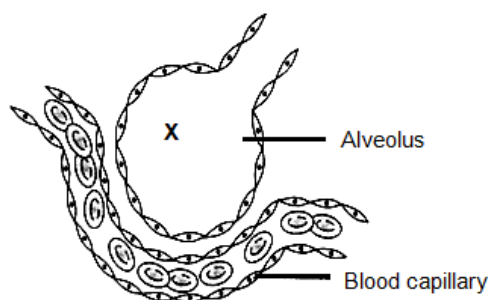
4 P T Which of the following are the products of aerobic and anaerobic respiration in muscle cells ?

*Manakah antara berikut adalah hasil dari respirasi aerob dan anaerob di sel-sel otot?*

	<b>Aerobic Respiration</b> <i>Respirasi aerob</i>	<b>Anaerobic Respiration</b> <i>Respirasi anaerob</i>
A	Carbon dioxide and water <i>Karbon dioksida dan air</i>	Ethanol <i>Etanol</i>
B	Carbon dioxide and water <i>Karbon dioksida dan air</i>	Lactic acid <i>Asid laktik</i>
C	Lactic acid <i>Laktik asid</i>	Ethanol <i>Etanol</i>
D	Lactic acid <i>Laktik asid</i>	Carbon dioxide and water <i>Karbon dioksida dan air</i>

5 F S Which of the following statements are **true** when a person inhales?

*Antara pernyataan berikut, yang manakah benar apabila seseorang individu menyedut nafas?*



I More oxyhaemoglobin will be formed.  
*Lebih banyak oksihemoglobin terbentuk*

II Oxygen diffuses from X into the blood capillary.  
*Oksigen meresap dari X ke dalam kapilari darah*

III The partial pressure of oxygen in X is higher than the partial pressure of oxygen in the blood capillary.

Tekanan separa oksigen di X adalah tinggi dari tekanan separa oksigen di kapilari darah.

IV The partial pressure of carbon dioxide in X is lower than the partial pressure of carbon dioxide in the blood capillary.

Tekanan separa karbon dioksida di X adalah lebih rendah dari tekanan separa arbon dioksida di kapilari arah

A I and II only  
I dan II sahaja

C I, II, and III only  
I, II dan III sahaja

B III and IV only  
III dan IV sahaja

D I, II, III, and IV  
Kesemua I, II, III dan IV

6 A students take part in a 200 m spring event. Which equation represents his respiration process after he has run the first 100 m?

A

T

Seorang murid mengambil bahagian dalam acara pecut 200m. Antara persamaan berikut yang manakah mewakili proses respirasi semasa ia lari 100 m yang pertama?

A Glucose → Lactic acid + energy  
Gukosa → Asid laktik + tenaga

B Glucose + Oxygen → Lactic acid + energy  
Glukosa + oksigen → Asid laktik + tenaga

C Glucose → Ethanol + carbon dioxide + energy  
Glukosa → Etanol + karbon dioksida + tenaga

D Glucose + Oxygen → Water + carbon dioxide + energy  
Glukosa + Oksigen → Air + Karbon dioksida + tenaga

7 Diagram 3 shows an experiment to study the changes in temperature during specific period of time.

A

S

Rajah 3 menunjukkan bagi satu eksperimen untuk mengkaji perubahan suhu dalam tempoh masa tertentu.

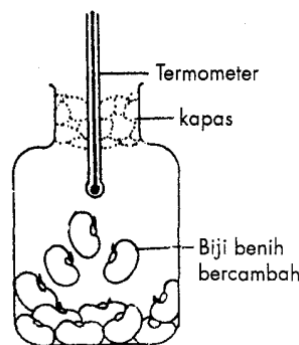
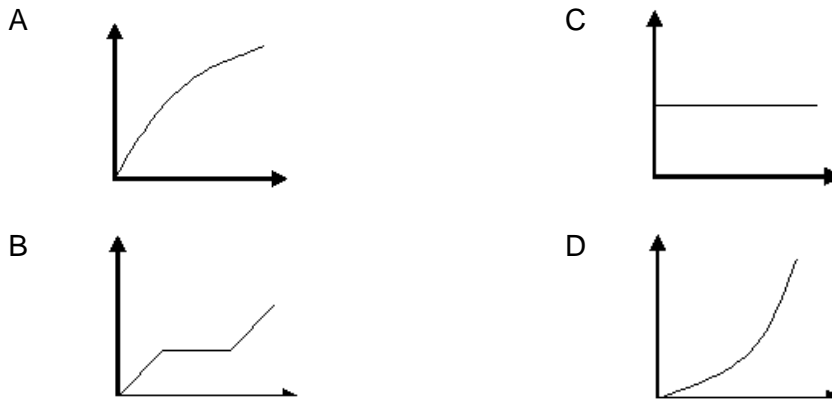


Diagram 3/ Rajah 3

Which of the following graph represented the best result of the experiment?

Antara graf-graf yang berikut yang manakah paling tepat mewakili keputusan eksperimen ini?



8 Diagram 4 shows two organisms P and Q.  
 P Rajah 4 menunjukkan dua organisma P dan Q.  
 T



Diagram 4 / Rajah 4

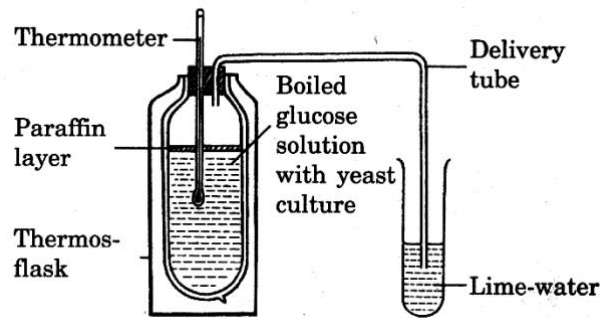
	P	Q
A	Tracheole <i>Trakeol</i>	Lungs <i>Peparu</i>
B	Tracheole <i>Trakeol</i>	Gills <i>Insang</i>
C	Lungs <i>Peparu</i>	Tracheole <i>Trakeol</i>
D	Lungs <i>Peparu</i>	Gills <i>Insang</i>

9 The following information shows the results of an experiment to determine the oxygen  
 A content in exhaled air using J-tube.  
 S Maklumat berikut menunjukkan keputusan satu ekperimen untuk menentukan  
 kandungan oksigen dalam udara hembusan dengan menggunakan tiub J

Length of air column (exhalation) <i>Panjang turus udara ( hembusan)</i>	= 10.0 cm
Length of exhale air column after treatment with potassium hydroxide <i>Panjang turus udara hembusan selepas dirawat dengan kalium hidroksida</i>	= 9.6 cm
Length of exhale air column after treatment with potassium pyrogallol <i>Panjang turus udara hembusan selepas dirawat dengan kalium pirogalol</i>	= 8.5 cm

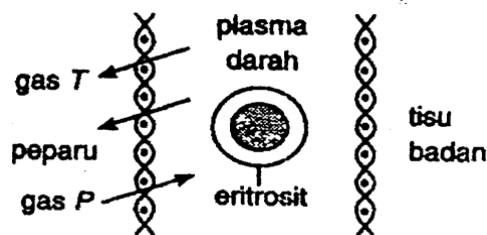


- 12 Diagram 7 shows an experiment on anaerobic respiration in yeast.  
 F Rajah 7 menunjukkan satu eksperimen tentang respirasi anaerob dalam yis.  
 T



Which of the following are observed after 30 minutes?  
 Antara berikut, manakah yang boleh diperhatikan selepas 30 minit?

- X Temperature in thermos-flask increases  
Suhu dalam kelalang termos meningkat
  - Y Lime water turns cloudy  
Air kapur berkeladak
  - Z Gas bubbles are released  
Gelembung gas dibebaskan.
- A X and Y only  
X dan Y sahaja
- B Y and Z only  
Y dan Z sahaja
- C X and Z only  
X dan Z sahaja
- D X, Y and Z  
X, Y dan Z.
- 13 Which of the following is the method in transportation of gas T in blood?  
 F Antara berikut yang manakah merupakan kaedah pengangkutan gas T dalam darah?  
 S



- I As carbaminohaemoglobin  
Dalam bentuk karbaminohemoglobin
- II As carbonic ion  
Dalam bentuk ion bikarbonat
- III Dissolve in blood plasma  
Terlarut dalam plasma darah
- IV Combine with red blood cell

- Berpadu dengan eritrosit*
- A I and II only  
*I dan II sahaja*
- B II and III only  
*II dan III sahaja*
- C I, II and III only  
*I, II dan III sahaja*
- D II, III and IV only  
*II, III dan IV sahaja*

- 14 AN S Which of the following information is true about photosynthesis and aerobic respiration?  
*Antara maklumat berikut, yang manakah benar bagi kedua-dua proses fotosintesis dan respirasi aerob?*

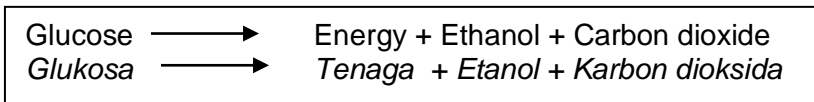
	Photosynthesis <i>Fotosintesis</i>	Aerobic respiration <i>Respirasi aerob</i>
A	Cell which undergo the process <i>Sel yang menjalani proses</i>	All living cell <i>Semua jenis sel hidup</i>
B	The situation for the process take place <i>Keadaan dimana proses berlaku</i>	In the absent of light <i>Keadaan tanpa cahaya</i>
C	Substrate <i>Substrat</i>	Glukosa <i>Glucose</i>
D	Product <i>Hasil tindak balas</i>	Carbon dioxide, ethanol & energy <i>Karbon dioksida, etanol dan tenaga</i>

- 15 AN S Which of the following is the different between photosynthesis and respiration?  
*Yang manakah antara berikut adalah perbezaan antara fotosintesis dan respirasi?*

	Photosynthesis	Respiration
A	Take place in mitochondrion <i>Berlaku dalam mitokondrion</i>	Take place in chloroplast <i>Berlaku dalam kloroplas</i>
B	Produce oxygen, glucose and energy <i>Menghasilkan oksigen, glukosa dan tenaga</i>	Produce energy, water and oxygen <i>Menghasilkan tenaga, air dan oksigen</i>
C	Take place in chloroplast <i>Berlaku dalam kloroplas</i>	Take place in mitochondrion <i>Berlaku dalam mitokondrion</i>
D	Produce energy, water and oxygen <i>Menghasilkan tenaga, air dan oksigen</i>	Produce oxygen, glucose and energy <i>Menghasilkan oksigen, glukosa dan tenaga</i>



16  
P  
R



Where the above process take place?  
*Di manakah proses di atas berlaku?*

- |                        |                         |
|------------------------|-------------------------|
| A Leaf<br><i>Daun</i>  | C Muscle<br><i>Otot</i> |
| B Liver<br><i>Hati</i> | D Yeast<br><i>Yis</i>   |

17  
P  
R

The blood from lung carry .....  
*Darah dari paru membawa...*

- A Less carbon dioxide and less oxygen  
*Kurang karbon dioksida dan kurang oksigen*
- B Less carbon dioxide and more oxygen  
*Kurang karbon dioksida dan lebih oksigen*
- C More oxygen and more carbon dioxide  
*Lebih oksigen dan lebih karbon dioksida*
- D More oxygen  
*Lebih oksigen*

18  
P  
T

Diagram 9 below shows the respiratory system in humans.  
*Rajah 9 di bawah menunjukkan sistem pernafasan pada manusia.*

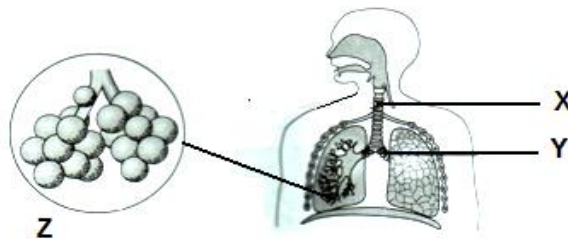


Diagram 9 /Rajah 9

What are X, Y and Z?  
*Apakah X, Y dan Z?*

	X	Y	Z
A	Trachea <i>Trakea</i>	Bronchus <i>Bronkus</i>	Bronchiole <i>Bronkiol</i>
B	Trachea <i>Trakea</i>	Bronchus <i>Bronkus</i>	Alveolus <i>Alveolus</i>
C	Oesophagus <i>Esofagus</i>	Trachea <i>Trakea</i>	Bronchus <i>Bronkus</i>
D	Oesophagus <i>Esofagus</i>	Trachea <i>Trakea</i>	Alveolus <i>Alveolus</i>

19 Which of the following processes in plants need energy?

F *Manakah antara proses berikut memerlukan tenaga?*

R

- I Mitosis  
*Mitosis*
- II Water diffusion  
*Resapan air*
- III Growth of pollen tube  
*Pemanjangan tiub debunga*
- IV Mineral salts absorption  
*Penyerapan garam mineral*

A I and II only  
*I dan II sahaja*

C I, III and IV only  
*I, III dan IV sahaja*

B III and IV only  
*III dan IV sahaja*

D I, II, III and IV  
*I, II, III dan IV.*

20 Diagram 10 shows an experiment to investigate a yeast activity. The yeast is suspended in a boiled, cooled glucose solution.

A *Rajah 10 menunjukkan satu eksperimen untuk mengkaji aktiviti yis. Yis dimasukkan bersama larutan glukosa didih yang telah disejukkan*

R

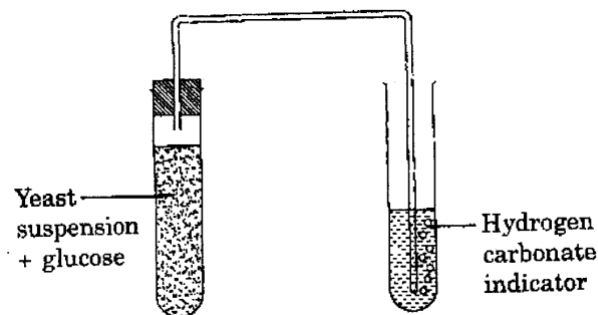


Diagram 10 / *Rajah 10*

What is the activity?

*Apakah aktiviti tersebut?*

A Diffusion of gas  
*Resapan gas*

C Anaerobic respiration  
*Respirasi anaerob*

B Digestion of starch  
*Pencernaan kanji*

D Synthesis of carbohydrate  
*Sintesis karbohidrat*

21 Diagram 11 shows a model of the ribs to illustrate the breathing mechanism in humans.

A *Rajah 11 menunjukkan model tulang rusuk untuk menerangkan mekanisme bernafas manusia.*

S

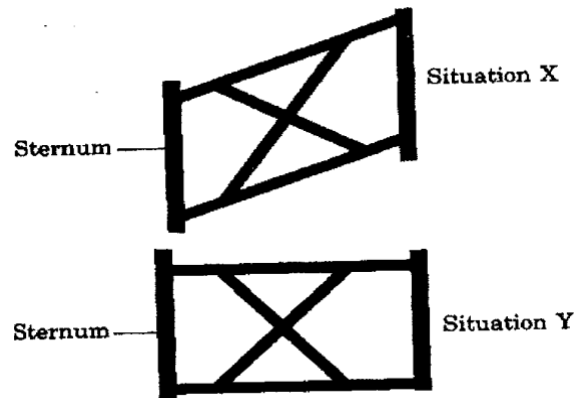


Diagram 11 / Rajah 11

What takes place as the position of the ribs changes from X to Y?

*Apakah yang telah berlaku bila tulang rusuk bertukar bentuk dari X ke Y?*

- I Pressure in the lungs increases  
*Tekanan dalam peparu bertambah*
  - II Volume of chest cavity decreases  
*Isipadu rongga dada berkurang*
  - III Rib cage pushes upwards and outwards  
*Sangkar rusuk bergerak ke atas dan ke depan*
  - IV Inhalation takes place  
*Berlaku sedutan nafas*
- A I and II only  
*I dan II sahaja*
- B III and IV only  
*III dan IV sahaja*
- C I, III and IV only  
*I, III dan IV sahaja*
- D I, II, III and IV  
*I, II, III dan IV*

- 22 Diagram 12 shows an experiment of yeast respiration.  
A *Rajah 12 menunjukkan eksperimen tentang respirasi yis.*  
S

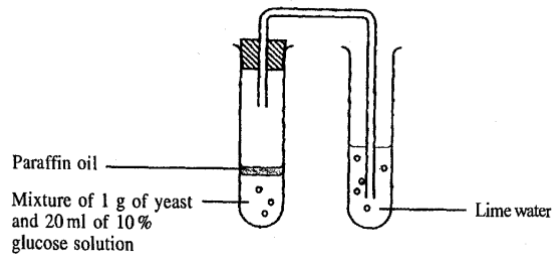


Diagram 12/ *Rajah 12*

Which of the following mixtures can increase the rate of respiration of yeast?  
*Campuran manakah boleh meningkatkan kadar respirasi yis?*

- A 1 g of yeast and 25 ml of 5 % glucose solution  
*1g yis dan 25 ml larutan glukosa 5%.*
- B 1 g of yeast and 25 ml of 7 % glucose solution  
*1g yis dan 25 ml larutan glukosa 7%.*
- C 1 g of yeast and 25 ml of 10 % glucose solution  
*1g yis dan 25 ml larutan glukosa 10%.*
- D 1 g of yeast and 25 ml of 15 % glucose solution  
*1g yis dan 25 ml larutan glukosa 15%.*

23 Diagram 13 shows a model of the lungs.  
*Rajah 13 menunjukkan model peparu.*

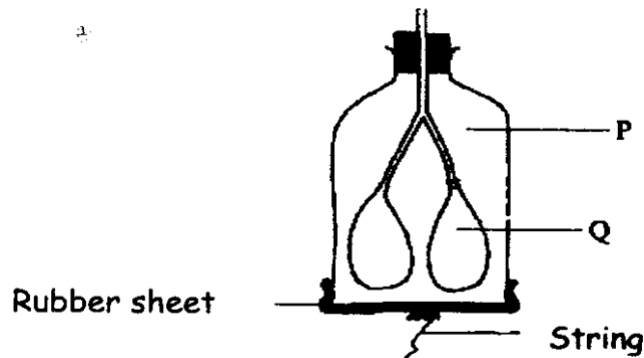


Diagram 13 / *Rajah 13*

What will happen in P and in Q when the string is pulled downwards?  
*Apa berlaku pada P dan Q jika tali ditarik ke bawah?*

	P	Q
A	Volume increases <i>Isipadu bertambah</i>	Expand <i>Mengembang</i>
B	Volume decreases <i>Isipadu berkurang</i>	Contract <i>Mengecut</i>

C	Pressure increases <i>Tekanan bertambah</i>	Expand <i>Mengembang</i>
D	Pressure decreases <i>Tekanan berkurang</i>	Contract <i>Mengecut</i>

24 F S Diagram 14 shows the structure of the gill of a fish.  
Rajah 14 menunjukkan struktur insang ikan.



Diagram 14 / Rajah 14

What process occurs at X during the gas exchange of the fish?  
Apakah proses yang berlaku di X semasa pertukaran gas pada ikan?

- |   |  |   |   |
|---|--|---|---|
| A | Osmosis<br><i>Osmosis</i>                        | C | Diffusion<br><i>Resapan</i>                   |
| B | Facilitated diffusion<br><i>Resapan berbantu</i> | D | Active transport<br><i>Pengangkutan aktif</i> |

25 P S Diagram 15 shows parts of the tracheal system of insects.  
Rajah 15 menunjukkan bahagian-bahagian pada sistem trakea serangga.

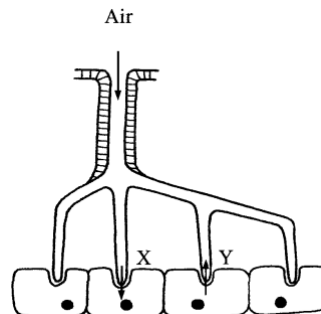


Diagram 15 / Rajah 15

What are substances X and Y?  
Apakah bahan X dan Y?

	X	Y
A	Oxygen <i>Oksigen</i>	Carbon dioxide <i>Karbon dioksida</i>
B	Carbon dioxide <i>Karbon dioksida</i>	Oxygen <i>Oksigen</i>
C	Oxygen <i>Oksigen</i>	Water <i>Air</i>

D	Water Air	Oxygen Oksigen
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26 What are the characteristics that enable gaseous exchange at the gill filaments of the fish to be carried out efficiently?  
F  
S *Apakah ciri-ciri yang membolehkan pertukaran gas pada insang ikan berlaku dengan berkesan?*

I large surface area  
*Luas permukaan yang besar*

II Thin walls of membrane  
*Dinding membran yang nipis*

III A network of blood capillaries  
*Satu jaringan kapilari darah*

IV The flow of blood which is opposite to the direction of the flow of water  
*Pengaliran darah yang berlawanan arah dengan arah pengaliran air*

A I and II only  
*I dan II sahaja*

C I, II and IV only  
*I, II and IV sahaja*

B III and IV only  
*III dan IV sahaja*

D I, II, III and IV only  
*I, II, III dan IV sahaja*

27 Carbon monoxide in tobacco smoke is harmful because it..  
P  
S *Karbon monoksida dalam asap rokok merbahaya kerana ..*

A causes addiction.  
*menyebabkan ketagihan*

B causes lung cancer.  
*menyebabkan barah peparu*

C kills the cells lining the trachea.  
*membunuh sel-sel yang melapisi trakea*

D competes with oxygen to combine with haemoglobin.  
*bersaing dengan oksigen untuk bergabung dengan haemoglobin*

28 Diagram 16 shows human respiratory system.  
F  
R *Rajah 16 menunjukkan sistem respirasi pada manusia.*

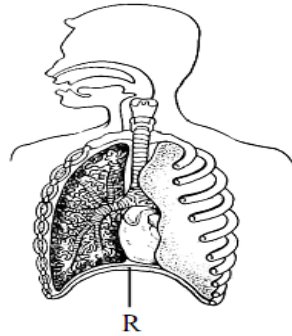


Diagram 16/ Rajah 16

What happen to structure R during exhalation?

Apakah yang berlaku kepada struktur R semasa hembus nafas?

- A Relaxes and becomes flatten  
*Mengendur dan menjadi mendatar*
- B Contracts and becomes flatten  
*Mengecut dan menjadi mendatar*
- C Relaxes and becomes dome shape  
*Mengendur dan menjadi bentuk kubah*
- D Contracts and becomes dome shape  
*Mengecut dan menjadi bentuk kubah*

29 Which equation represents aerobic respiration?

Persamaan manakah yang mewakili respirasi aerobik?

F  
R

- A Glucose  $\longrightarrow$  Lactic acid + energy  
*Glukosa  $\longrightarrow$  Asid laktik + tenaga*
- B Glucose + oxygen  $\longrightarrow$  Ethanol + carbon dioxide+ energy  
*Glukosa + Oksigen  $\longrightarrow$  Etanol + karbn dioksida + tenaga*
- C Glucose  $\longrightarrow$  Ethanol + carbon dioxide+ energy  
*Glukosa  $\longrightarrow$  Etanol + karbn dioksida + tenaga*
- D Glucose + oxygen  $\longrightarrow$  Carbon dioxide+ water + energy  
*Glukosa + Oksigen  $\longrightarrow$  Karbn dioksida + air + tenaga*

30 Which of the following statement shows the interdependent between respiration and photosynthesis?

Antara pernyataan berikut, yang manakah menunjukkan saling bersandaan antara respirasi dan fotosintesis?

AN  
R

- A Both processes use and release energy  
*Kedua-dua proses menggunakan dan membebaskan tenaga*
- B Respiration occurs all the time while photosynthesis occurs at the day time.  
*Respirasi berlaku sepanjang masa, manakala fotosintesis berlaku pada siang hari*

- C The product of one process is the raw materials in the other process  
*Hasil dari satu proses menjadi bahan mentah untuk proses yang lain*
- D Respiration occurs only in animals while photosynthesis occurs only in plant.  
*Respirasi hanya berlaku dalam haiwan manakala fotosintesis hanya berlaku dalam tumbuhan.*
- 31 Lactic acid accumulated in an athlete's muscles after taking part in 100 m sprint.  
AP Which of the following contribute to the situation?  
S *Asid laktik terkumpul di dalam otot seorang atlet selepas mengambil bahagian dalam acara 100m lari pecut.*  
*Antara berikut yang manakah menyumbang kepada situasi tersebut?*
- A Anaerobic respiration in muscles cells increases.  
*Respirasi anaerobik dalam sel-sel otot meningkat.*
- B Anaerobic respiration in muscles cells decreases.  
*Respirasi anaerobik dalam sel-sel otot berkurang.*
- C Aerobic respiration in muscles cells increases.  
*Respirasi aerobik dalam sel-sel otot meningkat.*
- D Aerobic respiration in muscles cells decreases.  
*Respirasi aerobik dalam sel-sel otot berkurang.*
- 32 Diagram 17 shows a longitudinal section of an alveolus and blood capillary.  
F *Rajah 17 menunjukkan keratan memanjang bagi satu alveolus dan kapilari darah.*  
S

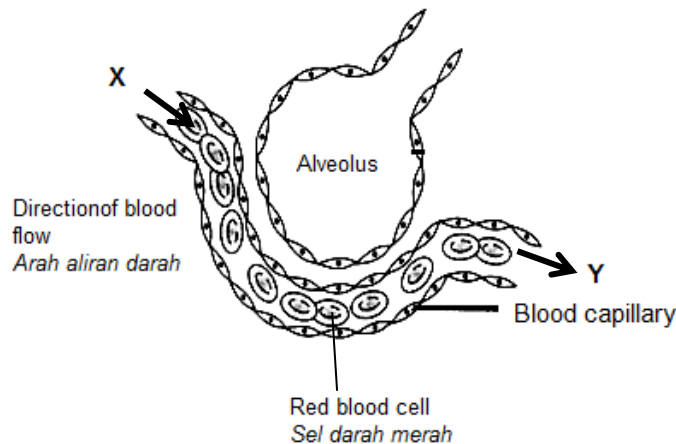


Diagram 17 / Rajah 17

What is the partial pressure of carbon dioxide at X and Y?  
*Apakah tekanan separa bagi karbon dioksida di X dan Y?*

	X	Y
A	Low <i>Rendah</i>	Low <i>Rendah</i>
B	Low <i>Rendah</i>	High <i>Tinggi</i>
C	High	Low



	<i>Tinggi</i>	<i>Rendah</i>
D	High <i>Tinggi</i>	High <i>Tinggi</i>

33 The following statements show a person's responses in a certain situation.  
 N Pernyataan berikut menunjukkan gerak balas seseorang dalam suatu situasi tertentu.  
 R

- Heartbeat rate increases  
*Kadar denyutan jantung meningkat*
- Breathing rate increases  
*Kadar pernafasan meningkat*
- Adrenaline produced increases  
*Penghasilan adrenalina meningkat*

Which situation is related to the responses?  
*Situasi manakah yang berkaitan dengan gerak balas tersebut?*

- A Cycling across the country  
*Berbasikal merentasi desa*
- B Rafting along the steep rapids  
*Berakit menyusuri jeram yang curam*
- C Running across the field  
*Berlari merentasi padang*
- D Singing in a party  
*Menyanyi dalam majlis*

34 Diagram 19 shows relationship between two processes.  
 AN Rajah 19 menunjukkan hubungan antara dua proses.  
 R

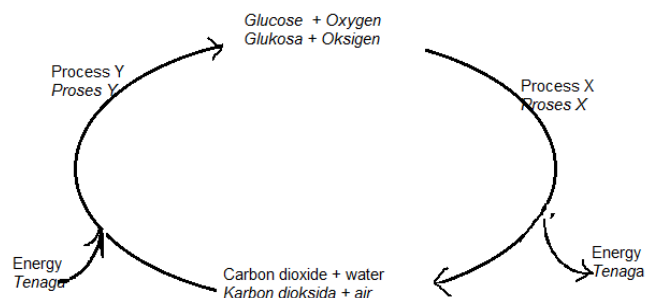


Diagram 19/ Rajah 19

What are X and Y?  
Apakah X dan Y?

	Process X <i>Proses X</i>	Process Y <i>Proses Y</i>
A	Condensation <i>Kondensasi</i>	Hydrolysis <i>Hidrolisis</i>
B	Condensation <i>Kondensasi</i>	Photosynthesis <i>Fotosintesis</i>
C	Respiration <i>Respirasi</i>	Photosynthesis <i>Fotosintesis</i>
D	Respiration <i>Respirasi</i>	Condensation <i>Kondensasi</i>

35 Diagram 20 shows part of human respiratory system.  
F Rajah 20 menunjukkan sebahagian daripada sistem respirasi manusia.  
S

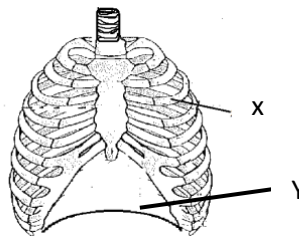


Diagram 20/ Rajah 20

What happen to structure X and Y during exhalation?  
Apakah berlaku kepada struktur X dan Y semasa menghembus nafas?

	X	Y
A	Move upwards and downwards <i>Bergerak ke atas dan ke bawah</i>	Contracts <i>Mengecut</i>
B	Move downwards and inwards <i>Bergerak ke bawah dan ke dalam</i>	Relaxes <i>Mengendur</i>
C	Move upwards and downwards <i>Bergerak ke atas dan ke bawah</i>	Contracts <i>Mengecut</i>
D	Move downwards and inwards <i>Bergerak ke bawah dan ke dalam</i>	Relaxes <i>Mengendur</i>

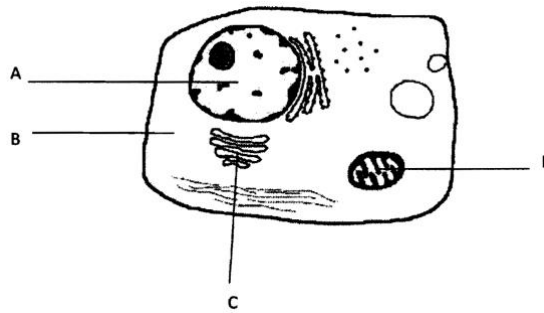
36 Diagram 21 shows a process occurs in an animal cell.  
F Rajah 21 menunjukkan suatu proses dalam sel haiwan.  
S



Diagram 21 / Rajah 21

Which of the structure labelled A, B, C and D does this process occurs?

Antara bahagian berlabel A, B, C dan D, di manakah proses ini berlaku?



- 37 Breathing is an involuntary process which is controlled by respiratory centre located in medulla oblongata.  
N  
R Which of the following will trigger the respiratory centre to increase the breathing rate?

*Respirasi adalah tindakan luar kawal yang dikawal oleh pusat kawalan pernafasan di medulla oblongata  
Manakah antara berikut akan menyebabkan pusat kawalan pernafasan meningkatkan kadar respirasi?*

- A The blood pH decreases  
*pH darah menurun*
- B The blood glucose level decreases  
*Aras glukosa darah menurun.*
- C The blood temperature decreases  
*Suhu darah menurun.*
- D The blood osmotic pressure decreases  
*Tekanan darah menurun*