

55/1
SAINS/P
Kertas 1
Ogos 2011
1 Jam

SAINS
Tingkatan 3
Kertas 1
Satu Jam

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU.

1. *Kertas soalan ini adalah dalam dwibahasa.*
2. *Soalan dalam bahasa Inggeris mendahului soalan yang sepadan dalam bahasa Melayu.*
3. *Calon dikehendaki membaca maklumat di halaman belakang kertas soalan ini.*

Kertas soalan ini mengandungi 23 halaman bercetak dan 1 halaman tidak bercetak.



- 1 Diagram 1 shows a measuring tool.
Rajah 1 menunjukkan alat pengukuran.



Diagram 1
Rajah 1

Which of the following is the function of above measuring tools?
Antara berikut, yang manakah fungsi alat pengukuran di atas?

- A To measure the mass of an object.
Untuk mengukur jisim objek.
 - B To measure the weight of an object.
Untuk mengukur berat objek.
 - C To measure the density of an object.
Untuk mengukur ketumpatan objek.
 - D To hold an object
Untuk memegang objek.
- 2 Diagram 2 shows the sequence cells of human body organisation.
Rajah 2 menunjukkan urutan organisasi sel badan manusia

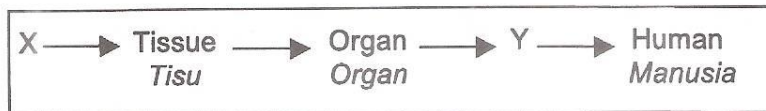


Diagram 2
Rajah 2

	X	Y
A	Ear Telinga	Bone Tulang
B	Heart Jantung	Digestive system Sistem pencernaan
C	Lung Peparu	Muscle cell Sel otot
D	Ovum Ovum	Reproductive system Sistem reproduktif



- 3 Diagram 3 shows a submarine sinking into the sea.
Rajah 3 menunjukkan sebuah kapal selam tenggelam ke dalam sebuah lautan.

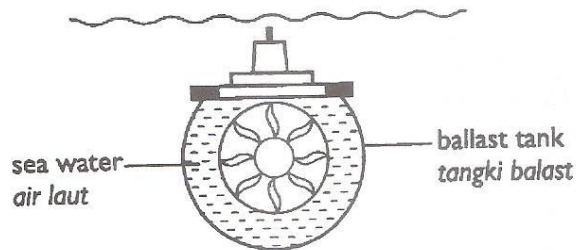


Diagram 3
Rajah 3

Which of the following statement can made the submarine to float.
Antara pernyataan berikut, yang manakah membolehkan kapal selam itu terapung semula.

- A. Replacing the water in the ballast tanks with hydrogen.
Gantikan air dalam tangki balast dengan hydrogen
 - B. Pumping more water into the ballast tank
Pamkan lebih air ke dalam tangki balast
 - C. Pumping water out of the ballast tank
Pamkan air keluar dari tangki balast
 - D. Filling the ballast tank with oxygen
Isikan tangki balast dengan oksigen
- 4 Diagram 4 shows the arrangement of particles of substances X and Y.
Rajah 4 menunjukkan susunan zarah-zarah bagi bahan X dan Y.

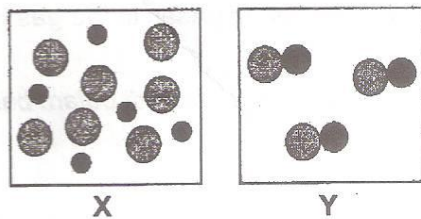


Diagram 4
Rajah 4

Which of the following correctly represent X and Y?
Antara berikut, yang manakah betul mewakili X dan Y?

	X	Y
A	Petroleum / <i>Petroleum</i>	Ammonia / <i>Ammonia</i>
B	Ammonia / <i>Ammonia</i>	Steel / <i>Keluli</i>
C	Water / <i>Air</i>	Steel / <i>Keluli</i>
D	Water / <i>Air</i>	Chlorine / <i>Klorin</i>



- 5 Which of the following are correct non metal and their uses?

Antara berikut, yang manakah betul tentang bukan logam dan kegunaannya?

	Non metal <i>Bukan logam</i>	Use <i>Kegunaan</i>
A	Sulphur <i>Sulfur</i>	To kill microorganism <i>Untuk membunuh mikroorganisma</i>
B	Chlorine <i>Klorin</i>	As fuels <i>Sebagai bahan api</i>
C	Carbon <i>Keluli</i>	Producing medicine <i>Menghasilkan ubat</i>
D	Nitrogen <i>Nitrogen</i>	Producing fertilizer <i>Menghasilkan baja</i>

- 6 Diagram 5 shows the candle is lighted in exhaled air.

Rajah 5 menunjukkan lilin yang dinyalakan dalam udara hembusan

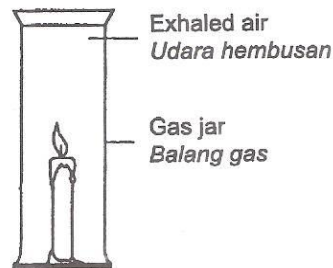


Diagram 5
Rajah 5

Which of the following represent the correct composition of gases in the gas jar when the candle is light out?

Antara berikut yang manakah mewakili komposisi gas yang betul di dalam balang gas apabila lilin padam?

	Composition <i>Komposisi</i>	Quantity <i>Kuantiti</i>
A	Carbon dioxide <i>Karbon dioksida</i>	Decrease <i>Berkurang</i>
B	Water vapour <i>Wap air</i>	Increase <i>Bertambah</i>
C	Oxygen <i>Oksigen</i>	Increase <i>Bertambah</i>
D	Nitrogen <i>Nitrogen</i>	Decrease <i>Berkurang</i>



- 7 Diagram 6 shows the combustion of coal.
Rajah 6 menunjukkan pembakaran arang batu.

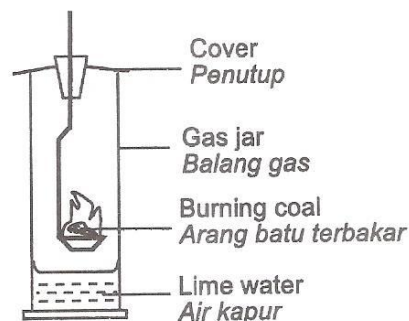
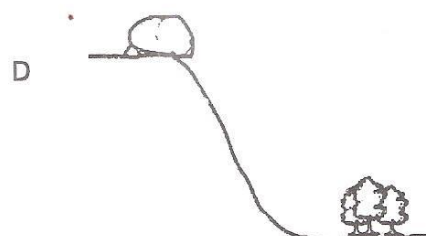
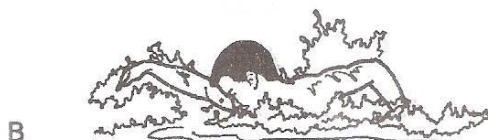
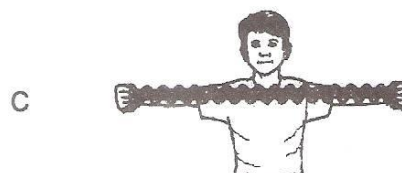


Diagram 6
Rajah 6

The product formed during the combustion of coal are
Hasil yang terbentuk semasa pembakaran arang batu ialah

- A Water only.
Air sahaja
 - B Carbon dioxide only .
Karbon dioksida sahaja.
 - C Water and carbon dioxide.
Air dan karbon dioksida
 - D Water, carbon and carbon dioxide.
Air, karbon dan karbon dioksida.
- 8 Which of the following has chemical energy?
Antara berikut, yang manakah mengandungi tenaga kimia?



- 9 Diagram 7 shows the energy change in X.
Rajah 7 menunjukkan perubahan tenaga dalam X.

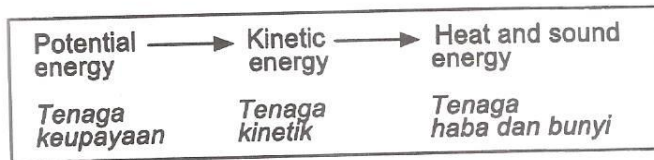


Diagram 7
Rajah 7

Which of the following is X ?

Antara berikut, yang manakah X ?

- P : Charcoal burning in a stove
Arang dibakar dalam dapur
- Q : An arrow shot from a bow and hitting a target
Anak panah dilancarkan di busur dan mengenai satu sasaran
- R : A landslide occurring on the side of mountain
Tanah runtuh berlaku pada tepi bukit

- A P and Q only
P dan Q sahaja
- B P and R only
P dan R sahaja
- C Q and R only
Q dan R sahaja
- D P, Q and R
P, Q dan R

- 10 Diagram 8 shows the change of the state of matter.
Rajah 8 menunjukkan perubahan keadaan jirim.



Diagram 8
Rajah 8

Which of the following does **not** occur during the change of states of matter?
Antara berikut, yang manakah **tidak berlaku** semasa perubahan keadaan jirim ini?.

- A. Heat is absorbed from the surrounding
Haba diserap daripada persekitaran
- B. The temperature of solid remains constant
Suhu pepejal kekal sama
- C. The particle of solid more nearer to each other
Zarah-zarah pepejal bergerak mendekati antara satu sama lain
- D. The kinetic energy of the particles of solid increase
Tenaga kinetik zarah-zarah pepejal bertambah



- 11 Which of the following explained why fuel tank is painted shiny?
Antara berikut, yang manakah menerangkan mengapa tangki bahan api di cat berkilau?

- A Good filter of ultraviolet rays
Penapis ultra ungu yang baik
- B A good absorption of heat
Penyerap haba yang baik
- C A good conductor of heat
Pengalir haba yang baik
- D A good reflector of heat
Pemantul haba yang baik

- 12 Diagram 9 shows two suction pumps which are pressed firmly together.
Rajah 9 di bawah menunjukkan dua pam penyedut yang ditekan dengan kuat bersama-sama.

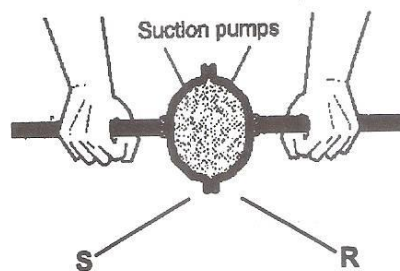


Diagram 9
Rajah 9

A student then tried to pull the suction pumps apart but failed.

Which explanation is correct?

*Seorang pelajar kemudiannya cuba menarik kedua-dua pam penyedut tetapi gagal.
Penerangan manakah betul?*

- A The air pressure at R is the same as air pressure at S.
Tekanan udara di R adalah sama dengan tekanan udara di S.
- B The air pressure at T is the same as air pressure at R.
Tekanan udara di T adalah sama dengan tekanan udara di R.
- C The air pressure at R is higher than air pressure at S.
Tekanan udara di R adalah lebih tinggi daripada tekanan udara di S.
- D The air pressure at S is higher than air pressure at R.
Tekanan udara di S adalah lebih tinggi daripada tekanan udara di R.



- 13 Diagram 10 shows a straw inside a glass of water.

Rajah 10 menunjukkan penyedut minuman di dalam sebuah gelas berisi air.

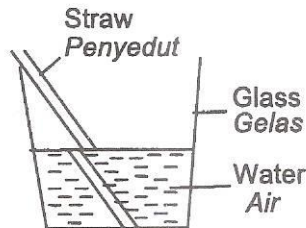


Diagram 10
Rajah 10

Which statement describes the phenomenon in Diagram 10?

Pernyataan manakah menerangkan fenomena dalam Rajah 10?

- A Light is dispersed into a spectrum
Cahaya diserakkan kepada spektrum
 - B Light travel in straight line
Cahaya merambat dalam garis lurus
 - C Light is refracted in the water
Cahaya dibiaskan di dalam air
 - D Light is reflected in the water
Cahaya dipantulkan di dalam air
- 14 Diagram 11 shows a cross section of a human eye with a defect of vision.
Rajah 11 menunjukkan keratan rentas mata manusia yang mengalami kecacatan penglihatan

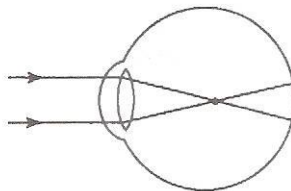


Diagram 11
Rajah 11

What causes the defect in vision shown above?

Apakah yang menyebabkan kecacatan penglihatan di atas?

- | | |
|--|---|
| I The eyeball is too long
<i>Bebola mata terlalu panjang</i> | III The eye lens is too thin
<i>Kanta mata terlalu nipis</i> |
| II The eyeball is too short
<i>Bebola mata terlalu pendek</i> | IV The eye lens is too thick
<i>Kanta mata terlalu tebal</i> |
| A I and II | C II and III |
| B I and III | D I and IV |



- 15 The calorific value of a plate of noodle is 2550 kJ. Calculate the calorific value of 3 plates of noodles.

Nilai kalori sepinggan mi ialah 2550 kJ. Hitungkan nilai kalori bagi tiga pinggan mi.

- | | | | |
|---|---------|---|---------|
| A | 765 kJ | C | 850 kJ |
| B | 7650 kJ | D | 9000 kJ |

- 16 Figure 12 shows the human digestive system.

Rajah 12 menunjukkan sistem pencernaan manusia.

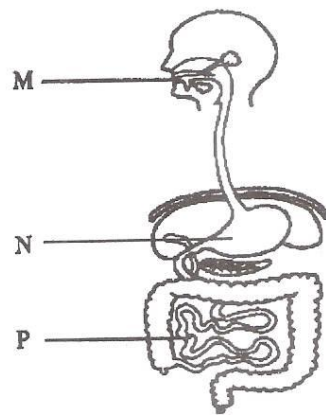


Diagram 12
Rajah 12

Which foods are digested in the organ M, N and P?

Makanan manakah yang dicernakan dalam organ M, N dan P?

	M	N	P
A	Meat <i>Daging</i>	Butter <i>Mentega</i>	Potatoes <i>Kentang</i>
B	Potatoes <i>Kentang</i>	Butter <i>Mentega</i>	Meat <i>Daging</i>
C	Potatoes <i>Kentang</i>	Meat <i>Daging</i>	Butter <i>Mentega</i>
D	Butter <i>Mentega</i>	Meat <i>Daging</i>	Potatoes <i>Kentang</i>



- 17 Diagram 13 shows the classification of animals.
Rajah 13 menunjukkan pengelasan haiwan-haiwan.

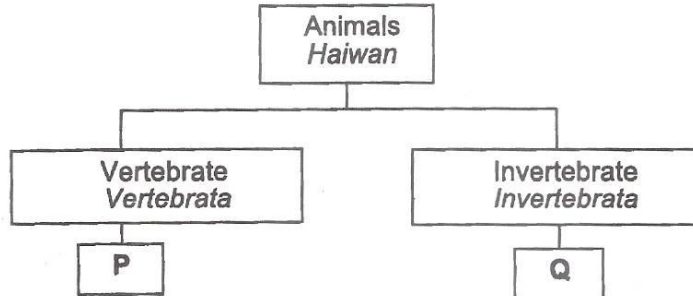


Diagram 13
Rajah 13

Which statement is correct?
Pernyataan manakah yang betul?

- | | | | |
|---|--|---|---|
| A | P lives on land only
<i>P tinggal di darat sahaja</i> | C | P has backbone
<i>P mempunyai tulang belakang</i> |
| B | Q has backbone
<i>Q mempunyai tulang belakang</i> | D | Q lives in water only
<i>Q tinggal di dalam air sahaja</i> |
- 18 Diagram 14 shows one of the steps in testing the presence of starch in a leaf.
Rajah 14 menunjukkan salah satu langkah untuk menguji kehadiran kanji dalam daun.

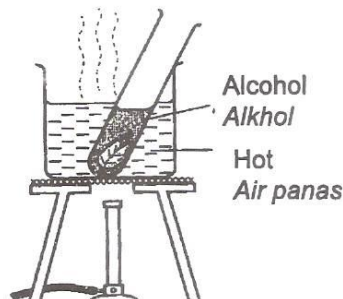


Diagram 14
Rajah 14

What is the purpose of carrying out this step?
Apakah tujuan menjalankan langkah ini?

- | | |
|---|--|
| A | To break the cell walls
<i>Untuk memecahkan dinding sel</i> |
| B | To dissolve the starch
<i>Untuk melarutkan kanji</i> |
| C | To remove the chlorophyll from the leaf
<i>Untuk menyingkirkan klorofil daripada daun</i> |
| D | To soften the leaf
<i>Untuk melembutkan daun</i> |



19 What is the advantage of biological control in plantation sector?

Apakah kelebihan kawalan biologi dalam sektor perladangan?

- A It destroys the balance of nature
Ianya memusnahkan keseimbangan alam
- B It reduces air and water pollution.
Ianya mengurangkan pencemaran udara dan air.
- C It will increase the usage of pesticides
Ianya akan meningkatkan penggunaan racun perosak
- D It completely eliminates pests
Ianya akan memusnahkan haiwan perosak sepenuhnya

20 P, Q, R and S are stages of water purification in a water treatment plant.

P, Q, R dan S merupakan peringkat-peringkat penulenan di dalam loji rawatan air.

P	-	Coagulation <i>Penggumpalan</i>
Q	-	Chlorination <i>Pengklorinan</i>
R	-	Sedimentation <i>Pengenapan</i>
S	-	Filtration <i>Penurasan</i>

Which of the following shows the correct sequence for water purification?

Antara berikut, yang manakah menunjukkan urutan yang betul bagi penulenan air?

- | | | | |
|---|------------|---|------------|
| A | P, R, S, Q | C | P, R, Q, S |
| B | R, P, S, Q | D | R, P, Q, S |

21 A push is a form of a force. Which action involves the pushing force?

Tolakan adalah satu bentuk tenaga. Tindakan manakah melibatkan daya tolakan?

- | | | | |
|---|---|---|---|
| A | Cutting a slice of bread
<i>Memotong sekeping roti</i> | C | Stretching a spring
<i>Meregang spring</i> |
| B | Carrying a bag of clothes
<i>Membawa beg pakaian</i> | D | Climbing a tree
<i>Memanjat pokok</i> |



- 22 Adreen has a mass of 60 kg. She walked to her school which is 300 m from her house. Calculate the work she had done.

Adreen mempunyai jisim 60 kg. Dia berjalan kaki ke sekolahnya sejauh 300 m dari rumahnya. Hitung kerja yang telah dia lakukan.

- | | | | |
|---|--------|---|-----------|
| A | 5J | C | 18000 J |
| B | 5000 J | D | 180,000 J |

- 23 Diagram 15 below shows two invertebrate animals
Rajah 15 menunjukkan dua haiwan invertebrata



Diagram 15
Rajah 15

What is the support system for these invertebrates?
Apakah jenis sistem sokongan bagi invertebrata ini?

- | | | | |
|---|---|---|-----------------------------------|
| A | Hydrostatic skeleton
<i>Rangka hidrostatik</i> | C | Exoskeleton
<i>Rangka luar</i> |
| B | Endoskeleton
<i>Rangka dalam</i> | D | Chitin
<i>Kitin</i> |
- 24 Diagram 16 shows a bicycle.
Rajah 16 menunjukkan sebuah basikal.



Diagram 16
Rajah 16

Which of the following will increase the stability of this bicycle?
Antara berikut, yang manakah akan meningkatkan kestabilan basikal ini?

- | | | | |
|---|--|---|--|
| A | Increase the height of W
<i>Meningkatkan ketinggian W</i> | C | Increase the diameter of Z
<i>Meningkatkan diameter Z</i> |
| B | Reduce the height of X
<i>Mengurangkan ketinggian X</i> | D | Increase the width of Y
<i>Meningkatkan kelebaran Y</i> |

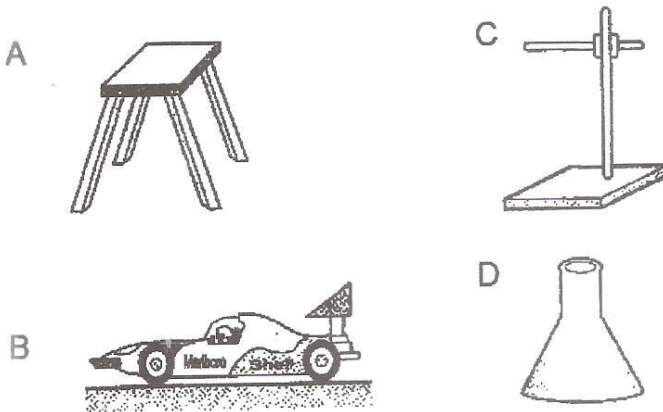


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- 25 The diagram below shows applications of stability. Which of the following applications of stability is based on low centre of gravity?

Rajah di bawah menunjukkan aplikasi di dalam konsep kestabilan.

Antara aplikasi kestabilan berikut yang manakah berdasarkan pusat graviti yang rendah?



- 26 Diagram 17 shows a tool based on a class of lever. *Rajah 17 menunjukkan satu alat berdasarkan satu kelas tuas.*

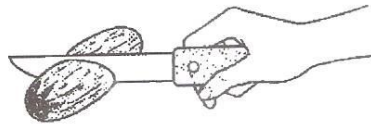


Diagram 17
Rajah 17

Which tool use the same principle as class lever in the above diagram?

Alat manakah menggunakan prinsip kelas tuas yang sama seperti rajah di atas?

- | | |
|---|--|
| A Ice tong
<i>Penyepit ais</i> | C Claw hammer
<i>Tukul kuku kambing</i> |
| B Bottle opener
<i>Pembuka botol</i> | D See saw
<i>Papan jongkang jongket</i> |



- 27 Diagram 18 shows a see saw that is balanced.

Rajah 18 menunjukkan sebuah papan jongkang jongket dalam keadaan seimbang.

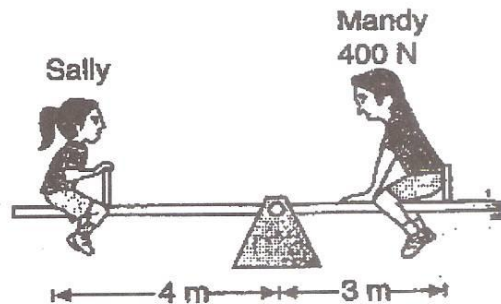


Diagram 18

Rajah 18

How much is Sally's weight for the see saw to be balanced as shown in Diagram 18?

Berapakah berat Sally supaya jongkang jongket itu seimbang seperti yang ditunjukkan dalam Rajah 18?

- | | | | |
|---|-------|---|-------|
| A | 290 N | C | 300 N |
| B | 310 N | D | 320 N |
- 28 Diagram 19 shows a structure in human lungs.
- Rajah 19 menunjukkan struktur dalam paru manusia*

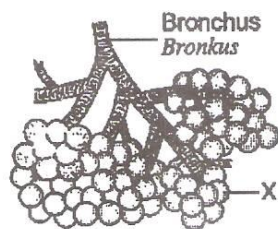


Diagram 19

Rajah 19

Which of the following is represented by X?

Antara berikut yang manakah diwakili oleh X?

- | | | | |
|----|-----------------|----|-----------------|
| A. | Trachea | C. | Bronchiole |
| | <i>Trakea</i> | | <i>Bronkiol</i> |
| B. | Alveolus | D. | Vilus |
| | <i>Alveolus</i> | | <i>Vilus</i> |



- 29 Diagram 20 shows a cross section of the human heart.
Rajah 20 menunjukkan keratan rentas jantung manusia.

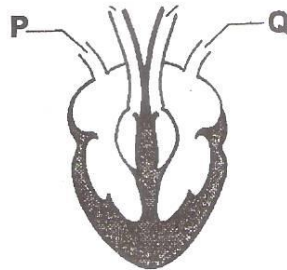


Diagram 20
Rajah 20

P and S are blood vessels in the heart. Which of the following is **correct** about P and S?
P dan S adalah salur darah dalam jantung. Antara berikut, yang manakah adalah betul mengenai P dan S?

	P	Q
A	Aorta which carries deoxygenated blood. <i>Aorta yang mengangkut darah terdeoksigen</i>	Pulmonary artery which carries oxygenated blood <i>Arteri pulmonari yang mengangkut darah beroksigen</i>
B	Pulmonary artery which carries oxygenated blood. <i>Arteri pulmonari yang mengangkut darah beroksigen .</i>	Aorta which carries deoxygenated blood. <i>Aorta yang mengangkut darah terdeoksigen .</i>
C	Pulmonary vein wh ich carries oxygenated blood. <i>Vena pulmonari yang mengangkut darah beroksigen .</i>	Vena cava which carries deoxygenated blood. <i>Vena cava yang mengangkut darah terdeoksigen .</i>
D	Vena cava which carries deoxygenated blood. <i>Vena cava yang mengangkut darah terdeoksigen.</i>	Pulmonary vein which carries oxygenated blood. <i>Vena pulmonari yang mengangkut darah beroksigen</i>



- 30 Diagram 21 shows a branch with the bark removed. After some time, the upper part of the ring is swollen but the lower part is shriveled as shown in Diagram 21(b). Which explanation is **correct**?

Rajah 21 menunjukkan sebahagian kulit batang tumbuhan yang digelang. Selepas beberapa lama, bahagian atas gelang akan membengkak manakala bahagian bawah mengecut seperti yang ditunjukkan dalam Rajah 21 (b).

Penerangan manakah betul?

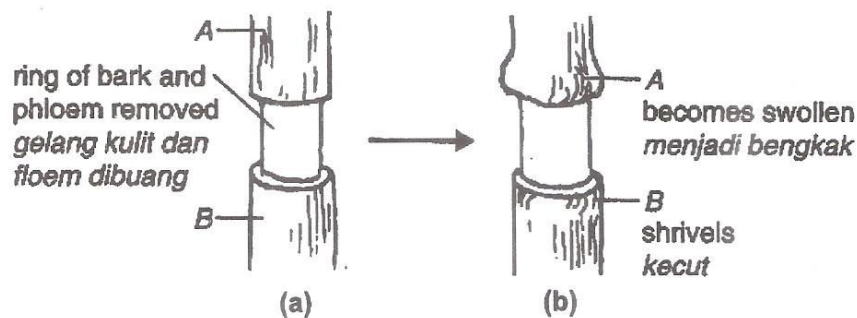


Diagram 21
Rajah 21

- A Food accumulates in the upper part of the ring.
Bahan makanan terkumpul di bahagian atas gelang.
- B Food and water are transported to the lower part of the ring.
Bahan makanan diangkut ke bahagian bawah gelang.
- C Food is produced at the lower part of the ring.
Bahan makanan dihasilkan di bahagian bawah gelang.
- D Water and minerals cannot be transported
Air dan garam mineral tidak dapat diangkut.



- 31 Diagram 22 shows a cross section of a flower
Rajah 22 menunjukkan keratan rentas sekuntum bunga.

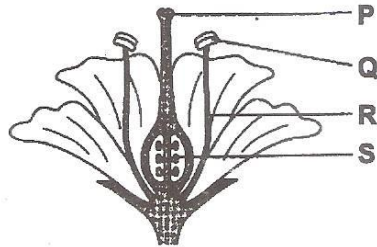


Diagram 22
Rajah 22

Where does pollination and fertilisation occurs?

Di manakah pendebungaan dan persenyawaan berlaku?

	Pollination <i>Pendebungaan</i>	Fertilisation <i>Persenyawaan</i>
A	P	S
B	P	Q
C	Q	R
D	R	S

- 32 Which excretory product is excreted by the lungs, skin and kidneys?
Bahan kumuh manakah yang disingkirkan oleh peparu, kulit dan ginjal?

- | | | | |
|---|---------------------|---|--|
| A | Urea
<i>Urea</i> | C | Mineral salts
<i>Garam mineral</i> |
| B | Water
<i>Air</i> | D | Carbon dioxide
<i>Karbon dioksida</i> |



- 33 Diagram 23 shows the growth curve for boys and girls.
Rajah 23 menunjukkan lengkung pertumbuhan budak lelaki dan budak perempuan.

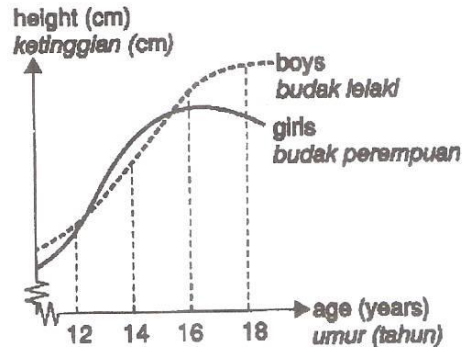


Diagram 23
Rajah 23

Between what ages are the girls taller than boys?
Antara umur berapa, budak perempuan lebih tinggi daripada budak lelaki?

- | | | | |
|---|--------------------------------|---|--------------------------------|
| A | 10 – 12 years
10 – 12 tahun | C | 16 – 18 years
16 – 18 tahun |
| B | 13 – 15 years
13 – 15 tahun | D | 19 – 21 years
19 – 21 tahun |
- 34 Diagram 24 shows an experiment to investigate the reaction between pieces of eggshell and dilute hydrochloric acid.
Rajah 24 menunjukkan satu eksperimen untuk mengkaji tindakbalas antara serpihan cangkerang telur dan asid hidroklorik cair

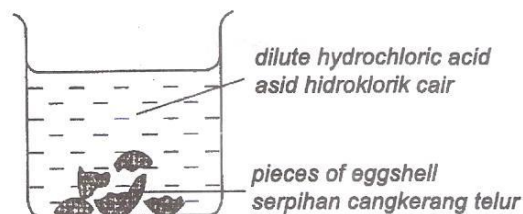


Diagram 24
Rajah 24

What are the products of the reaction?
Apakah hasil tindak balas itu?

- | | |
|---|---|
| A | Calcium chloride + carbon dioxide
<i>Kalsium klorida + karbon dioksida</i> |
| B | Calcium oxide + carbon dioxide
<i>Kalsium oksida + karbon dioksida</i> |
| C | Calcium hydroxide + carbon dioxide + water
<i>Kalsium hidroksida + karbon dioksida + air</i> |
| D | Calcium chloride + carbon dioxide + water
<i>Kalsium klorida + karbon dioksida + air.</i> |



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- 35 When a balloon is rubbed with a piece of cotton, it is attracted to a positively charged plastic ruler. Which statement explains this condition?

Apabila satu belon digosok dengan sehelai kain kapas, belon itu tertarik kepada pembaris plastik bercas positif. Pernyataan manakah menerangkan keadaan ini?

- A Balloon loses protons
Belon hilang proton
- B Balloon receives electrons
Belon menerima elektron
- C Balloon has less electrons than plastic ruler.
Belon mempunyai kurang elektron daripada pembaris plastik
- D Balloon has less proton than the plastic ruler.
Belon mempunyai kurang proton daripada pembaris plastik

- 36 Diagram 25 shows a circuit where one of the bulbs has fused. This will prevent the other three bulbs from lighting.

Rajah 25 menunjukkan sebuah litar dengan keadaan satu daripada mentol itu telah terbakar. Ini akan menghalang tiga mentol yang lain daripada menyala.

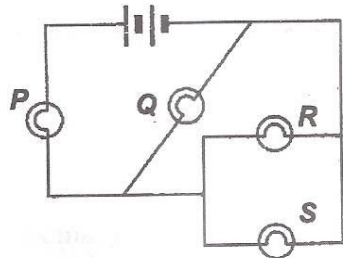


Diagram 25
Rajah 25

Which bulb shown in the circuit is fused?

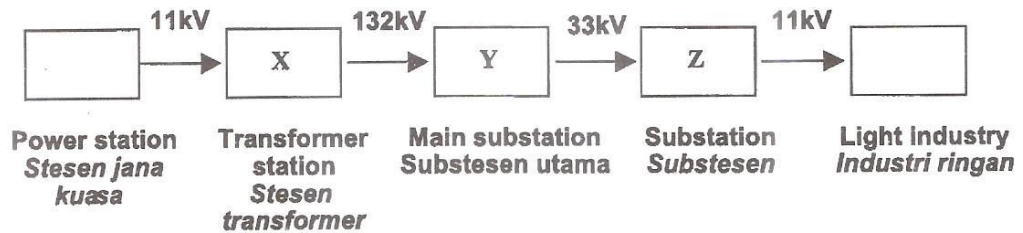
Mentol manakah dalam litar yang telah terbakar?

- A P B Q C R D S



- 37 Diagram 26 shows the transmission and distribution of electricity from a power station to light industries.

Rajah 26 menunjukkan penghantaran dan pengagihan tenaga elektrik dari stesen jana kuasa ke kawasan industri ringan.



Which of the following is correct about transformers X, Y and Z ?

Antara berikut, yang manakah betul tentang transformer X, Y dan Z ?

	X	Y	Z
A	Step-up <i>Injak naik</i>	Step –down <i>Injak turun</i>	Step-down <i>Injak turun</i>
B	Step –down <i>Injak turun</i>	Step –down <i>Injak turun</i>	Step –down <i>Injak turun</i>
C	Step –down <i>Injak turun</i>	Step-up <i>Injak naik</i>	Step –down <i>Injak turun</i>
D	Step-up <i>Injak naik</i>	Step-up <i>Injak naik</i>	Step-up <i>Injak naik</i>



- 38 Diagram 27 shows three components used in the wiring system in home.
Rajah 27 menunjukkan threet komponen digunakan dalam sistem pendawaian di rumah

Which of the following shows the correct sequence of arranging the components in the home wiring system?

Antara berikut, yang manakah menunjukkan urutan yang betul bagi susunan komponen dalam sistem pendawaian di rumah?

K	-	Main switch <i>Suis utama</i>
L	-	Joule metre <i>Meter joule</i>
N	-	Main fuse <i>Fius utama</i>

Diagram 27
Rajah 27

- | | | | |
|---|----------|---|---------|
| A | K, L, N | C | N, K, L |
| B | N, L, K, | D | L, K, N |
- 39 Which sequence shows the arrangement of the stars from the largest to the smallest in size?
Turutan manakah yang menunjukkan susunan bintang mengikut saiz daripada yang paling besar kepada yang paling kecil?
- A Supergiant, white dwarf, neutron star
Super raksasa, kerdil putih, bintang neutron
 - B Supergiant, neutron star, white dwarf
Super raksasa, bintang neutron, kerdil putih
 - C White dwarf, neutron star, supergiant
Kerdil putih, bintang neutron, super raksasa
 - D Neuron star, white dwarf, supergiant
Bintang neutron, kerdil putih, super raksasa



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- 40 Who was the first astronaut to orbit the Earth?
Siapakah angkasawan pertama yang mengorbit bumi?

- A Isaac Newton
- B Galileo Galilei
- C Yuri Gagarin
- D Neil Armstrong

END OF QUESTION PAPER

