

- 7 Apakah jenis mikroorganisma yang menyebabkan tuberkulosis?  
What type of microorganism that causes tuberculosis?

A Kulat  
Fungus  
B Virus  
Virus  
C Bakteria  
Bacterium  
D Protozoa  
Protozoan

- 8 Apakah yang dihasilkan oleh sel darah putih untuk membunuh mikroorganisma?  
What do white blood cells produce to kill microorganism?

A Vaksin  
Vaccines  
B Antibodi  
Antibodies  
C Antiserum  
Antiserum  
D Antiseptik  
Antiseptics

- 9 Kumpulan mikroorganisma yang manakah boleh membuat makanannya sendiri (berfotosintesis)?  
Which group of microorganisms can make their own food (photosynthetic)?

A Alga  
Algae  
B Kulat  
Fungi  
C Bakteria  
Bacteria  
D Protozoa  
Protozoan

- 10 Jadual 1 menunjukkan nilai kalori bagi kelas makanan yang berbeza.  
Table 1 shows the calorific values of different classes of food.

| Kelas makanan<br>Class of food | Nilai kalori (kJ/g)<br>Calorific value (kJ/g) |
|--------------------------------|-----------------------------------------------|
| Karbohidrat<br>Carbohydrate    | 16.7                                          |
| Protein<br>Protein             | 22.2                                          |
| Lemak<br>Fat                   | 38.5                                          |

JADUAL 1 / TABLE 1

Sepotong pai epal mengandungi 3 g protein, 12 g karbohidrat dan 5 g lemak. Hitung jumlah nilai kalori bagi sepotong pai itu?

A piece of apple pie contains 3 g of protein, 12 g of carbohydrate and 5 g of fat. Calculate the total calorific value of the piece of pie?

A 192.5 kJ  
B 267.0 kJ  
C 459.5 kJ  
D 919.0 kJ

- 31 Antara keadaan berikut, yang manakah paling sesuai untuk pertumbuhan dan pembiakan bakteria?  
Which of the following conditions is the most suitable for the growth and reproduction of bacteria?

|   | pH | Suhu (°C)/Temperature (°C) |
|---|----|----------------------------|
| A | 5  | 37                         |
| B | 7  | 37                         |
| C | 7  | 45                         |
| D | 10 | 60                         |

- 32 Apakah keadaan kesihatan atau penyakit yang dikaitkan dengan kegendutan?  
Which medical condition or disease is related to obesity?

A Anemia  
Anaemia  
B Kanser  
Cancer  
C Anoreksia nervosa  
Anorexia nervosa  
D Diabetes melitus  
Diabetes mellitus

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- Daun-daun kekuningan  
Yellowing of the leaves  
- Pertumbuhan terencat  
Stunted growth

- Antara anak benih berikut, yang manakah menunjukkan simptom seperti di atas?  
Which of the following seedlings shows the above symptoms?

A

anak benih seedling  
kapas cotton wool  
kertas hitam black paper  
larutan kultur tanpa kalium culture solution without potassium

B

anak benih seedling  
kapas cotton wool  
kertas hitam black paper  
larutan kultur tanpa fosforus culture solution without phosphorus

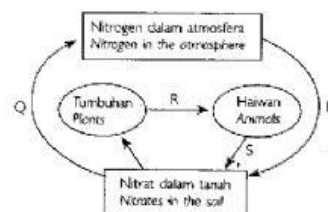
C

anak benih seedling  
kapas cotton wool  
kertas hitam black paper  
larutan kultur tanpa nitrogen culture solution without nitrogen

D

anak benih seedling  
kapas cotton wool  
kertas hitam black paper  
air suling distilled water

- 34 Rajah 15 menunjukkan sebahagian daripada kitar nitrogen.  
Diagram 15 shows part of the nitrogen cycle.

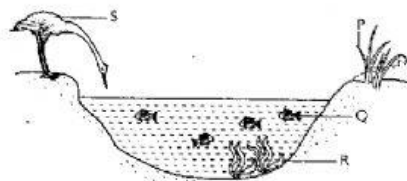


RAJAH 15/DIAGRAM 15

Antara proses P, Q, R dan S yang berikut, yang manakah merupakan proses pendenitratan?  
Which of the following process, P, Q, R and S, is denitrification?

A P  
B Q  
C R  
D S

- 35 Rajah 16 menunjukkan beberapa hidupan di suatu habitat.  
Diagram 16 shows some of the living things in a habitat.



RAJAH 16/DIAGRAM 16

Antara hidupan berikut, yang manakah merupakan pengeluar?  
Which of the following living things are producers?

A P dan Q  
P and Q  
B P dan R  
P and R  
C Q dan S  
Q and S  
D R dan S  
R and S

- 36 Mengapakah lapisan ozon begitu penting?  
Why is the ozone layer important?

A Ia mengawal atur cuaca.  
It regulates the weather.  
B Ia melindungi Bumi daripada sinaran ultra ungu Matahari.  
It protects the Earth from the harmful ultraviolet radiation of the Sun.  
C Ia mengurangkan jumlah haba dari Matahari.  
It reduces the amount of heat from the Sun.  
D Ia mengurangkan jumlah cahaya yang sampai ke Bumi.  
It reduces the amount of light reaching the Earth.