



JABATAN PELAJARAN TERENGGANU

**PEPERIKSAAN AKHIR TAHUN
TINGKATAN EMPAT 2008**

ENGLISH FOR SCIENCE AND TECHNOLOGY

Kertas 1

Satu jam 15 minit

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU

1. *Kertas soalan ini mengandungi dua bahagian: Bahagian A dan Bahagian B*
2. *Jawab semua soalan.*
3. *Jawapan anda hendaklah ditulis pada ruang yang disediakan dalam kertas soalan ini*
4. *Anda dinasihatkan supaya mengambil masa 30 minit untuk menjawab soalan-soalan dalam Bahagian A dan 45 minit untuk Bahagian B*

<i>For Examiner's Use</i>			
<i>Section</i>		<i>Marks</i>	
<i>A</i>	<i>Q1</i>	<i>10</i>	
	<i>Q2</i>	<i>10</i>	
<i>B</i>		<i>30</i>	
<i>TOTAL</i>		<i>50</i>	

Kertas soalan ini mengandungi 7 halaman bercetak

Section A
[20 marks]

You are advised to spend 30 minutes on this section

Question 1

Read the text and complete the given task.

Our quality of life depends very much on our immune system which protects our body and prevents it from succumbing to sickness and diseases. For example, when we have a sore throat, the lymph nodes just under our jaws appear swollen. This is because our immune system has mobilized the production of antibodies to fight the invaders. After a few days, even without medication, the lymph nodes would return to their normal size.

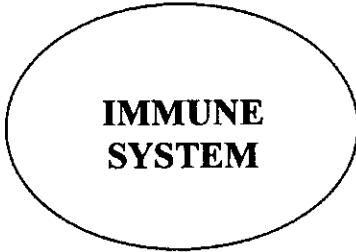
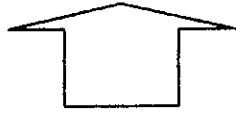
Unhealthy lifestyle, poor eating habits, frequent use of drugs and medication lack of exercise, late nights, emotional stress, environmental factors, use of chemicals, free radical activities from devices like mobile phones and electrical appliances can severely weaken our immune system. When this happens, our body becomes easy prey to infections and diseases. Painful joints, swelling, poor digestion, constant coughs and colds are symptoms of a weak immune system.

Deficiencies and imbalances in nutrients can disrupt the proper functioning of our immune system. Zinc, which is important in immune mechanism, is one of the most common nutrient deficiencies. An adequate level of beta-carotene and vitamin A is important to help our body ward off invaders, and vitamins C and E are the most important immune protectors.

The modern diet and lifestyle are producing an unhealthy population. Maintaining a healthy lifestyle by abstaining from smoking, doing regular exercise, managing stress properly and possessing a positive mental attitude should help us build a strong immune system. Getting enough sleep and rest is important too. In addition, a healthy diet rich in vitamins and zinc will boost our immune system. Consuming food high in antioxidants helps to neutralize harmful chemical components in our body. Green leafy vegetables, garlic, ginger, orangey-red food like tomatoes, carrots, sweet potatoes, papayas and watermelons are excellent sources of antioxidants.

Based on the information from the text, complete the graphic organizer below.

Function:
1. _____



Symptoms of weakness:
2. _____
3. _____
4. _____
5. _____



Ways to maintain a healthy lifestyle:
6. _____
7. _____
8. _____
9. _____
10. _____

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Question 2

Read the text below.

Metals occur in rocks in Earth's crust. Gold and iron are metals. Being metals, they are hard, malleable and good conductors of heat and electricity. Gold occurs as a free metal, uncombined. It is found 'native', in other words found as an element. This is unusual: only metals which are very unreactive can withstand the action of air and water for thousands of years without being converted into compounds.

Unlike other metals, gold does not tarnish. Since it is malleable, it can easily be hammered into different shapes and it can be pulled into the form of a wire. Besides being used to make jewellery, there are scientific uses for gold. Integrated circuits operate at low currents and low voltage. Contacts and switches must therefore have low resistance. At these low currents, even small areas of corrosion on the electrical contacts can increase the resistance. Extremely non-corrodable metals must therefore be used, and gold is the best choice.

Iron is also a metallic element but, like most metals, it is mined as compounds. Due to its reactive nature, iron has to be extracted from its ores by the action of a chemical reducing agent, such as carbon or hydrogen. Iron is very hard and strong. It has been used for thousands of years to make tools, such as axes, knives and hammers.

Based on the information in the text, complete the table below.

	Gold	Iron
Uses	1. _____ 2. _____	3. _____
Differences	4. _____ 5. _____	6. _____ 7. _____
Similar properties	8. _____ 9. _____ 10. _____	

[10 marks]

Section B
[30 marks]

[Time suggested: 45 minutes]

Read the information given below on chocolate which offers health benefits for people.

- Dark chocolate-full of flavonoids – function as antioxidants
- Protects blood vessels
- Promotes cardiac health
- Prevents cancer
- Prevents mild hypertension
- White or milk chocolate contains saturated fat
- May bring harmful effects – high calorie

Write a **report** on chocolate. In your report, you **must**

- use **all** points given
- elaborate by giving relevant information
- provide any other additional information on chocolate

Your report **should not be less than 200 words**

