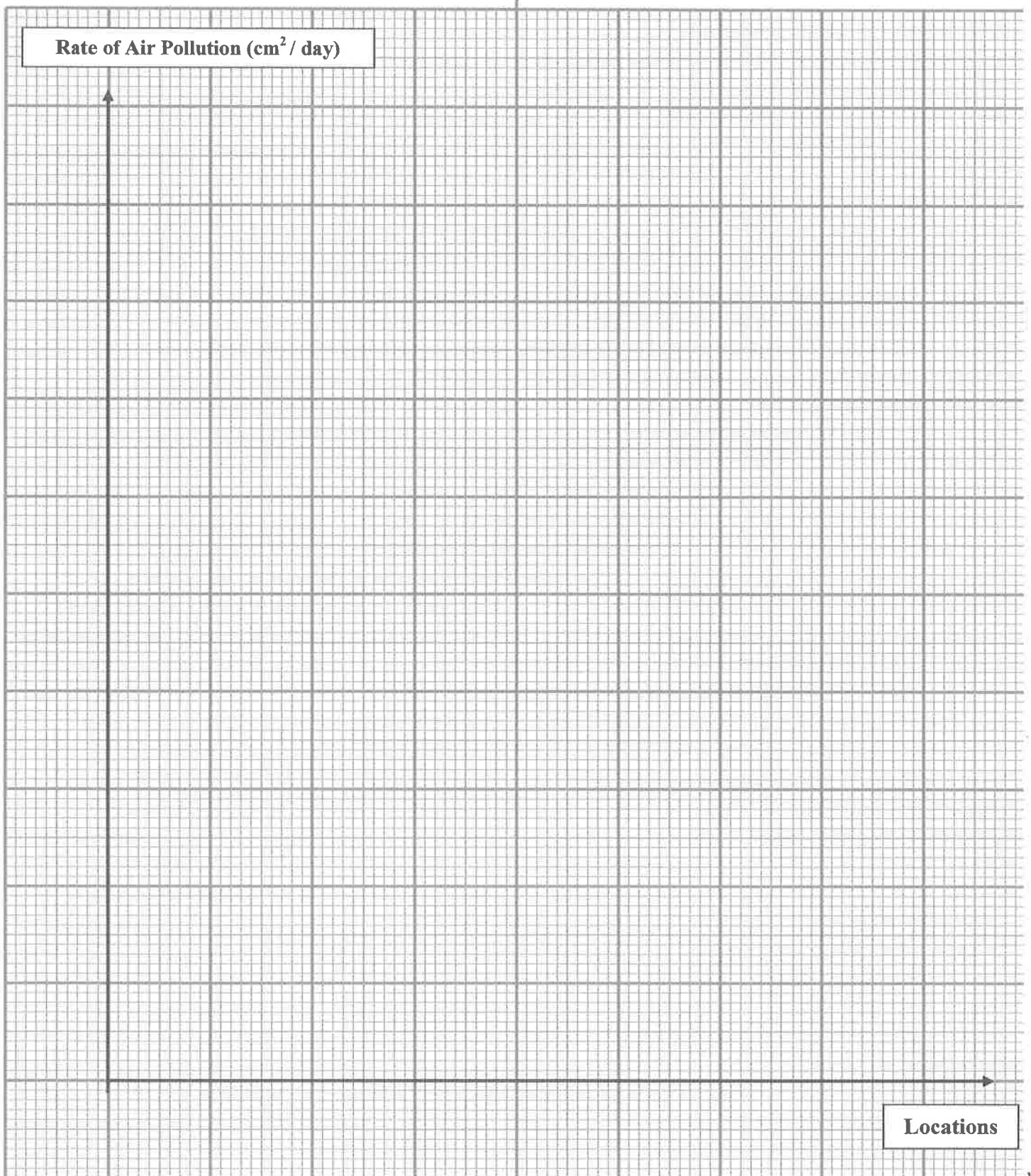




Bar chart of rate of pollution against locations  
*Carta bar kadar pencemaran udara melawan lokasi*



[Lihat Halaman Sebelah]

- (h) The experiment was repeated at a quarry. Predict the rate of air pollution. Explain your answer.  
*Eksperimen diulang menggunakan kawasan kuari. Ramalkan kadar pencemaran udara. Terangkan jawapan anda.*

.....  
 .....  
 .....

[3 marks]  
 [3 markah]

For  
 examiners  
 use only

1(h)

3

- (i) Table 3 contains various types of pollutants.  
 Jadual 3 mengandungi pelbagai jenis bahan pencemar.

Soot, Carbon Monoxide, Detergents, Hot Water, Sulphur Dioxide, Fertilizers, Nitrates
<i>Jelaga, Karbon Monoksida, Detergen, Air Panas,          Sulfur Dioksida, Baja, Nitrat</i>

Table 3  
 Jadual 3

Complete Table 4 by matching each type of pollutants with the appropriate type of pollution.  
 Lengkapkan Jadual 4 dengan memadankan setiap bahan pencemar dengan jenis pencemaran yang bersesuaian.

Air Pollution <i>Pencemaran Udara</i>	Water Pollution <i>Pencemaran Air</i>	Thermal Pollution <i>Pencemaran Terma</i>

Table 4  
 Jadual 4

[3 marks]  
 [3 markah]

1(i)

3

- Vitamin C is an antioxidant which is important in cosmetic and health supplement industry especially in their ability to enhance skin. This statement is proven by mass advertisement made by the cosmetic companies on their products showing high percentage of Vitamin C as shown in Diagram 2.1 and Diagram 2.2.

*Vitamin C adalah sejenis antioksidan yang penting dalam industri kosmetik dan produk kesehatan tambahan terutamanya bagi tujuan penjagaan kulit. Kenyataan ini dibuktikan melalui kecenderungan pengiklanan syarikat kosmetik memaparkan peratusan Vitamin C yang tinggi dalam produk-produk mereka seperti Rajah 2.1 dan Rajah 2.2.*

**100% PURE**

**NUTRABIO**

**VITAMIN C**

**150G POWDER 150 SERVINGS**

**MADE IN A GMP & FDA INSPECTED FACILITY**

**Supplement Facts**  
 Serving size: 1 scoop (1 gram)  
 Servings per container: 150

	Amount Per Serving	% Daily Value
Vitamin C	1000 mg	1887%*
<small>(as 100% pure Ascorbic Acid USP)</small>		

\* % Daily Values (DV) are based on a 2000 calorie diet.

Other Ingredients: ABSOLUTELY NONE.  
 STORE IN COOL DRY PLACE.  
 SERVING SPOON INCLUDED (MAY SETTLE TO THE BOTTOM DURING SHIPPING.)  
 Manufactured by NutraBio Labs, Inc.  
 164 Lincoln Blvd., Middlesex, NJ 08948  
 (732-748-8800) WWW.NUTRABIO.COM

Warnings: NOT INTENDED FOR USE BY PERSONS UNDER THE AGE OF 18. KEEP OUT OF THE REACH OF CHILDREN. If you are pregnant, breast feeding, have known medical conditions (including kidney or liver disease) or are taking prescription or OTC medication(s) consult with your health care practitioner before using this product.

NO FILLERS  
 NO EXCIPIENTS  
 NO ADJUVANTS

Pharmaceutical Grade  
 HPLC Lab Tested for Potency  
 Free of Harmful Impurities

TRU LABEL  
 100% PURE ASCORBIC ACID  
 Dietary Supplement | Net Weight 5.3 oz.

6 49908 23070 8

Diagram 2.1  
Rajah 2.1

**VITAMIN C INJECTABLE SOLUTION**

**FOR ANIMAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**

**NET CONTENTS: 250 mL**

**AgriLabs**  
 Making a Difference™

**INDICATIONS:** For use as a water-soluble source of Vitamin C in calves, horses, sheep, goats and pigs.

**PRECAUTIONS:** Some animals may develop an allergic response; discontinue use if severe allergic reactions occur. Storage under refrigeration will reduce possibility of precipitation.

**DOSAGE AND ADMINISTRATION:** Administer intravenously 1 to 10 mL, depending on condition, species, and body weight. Repeat daily as indicated by clinical response.

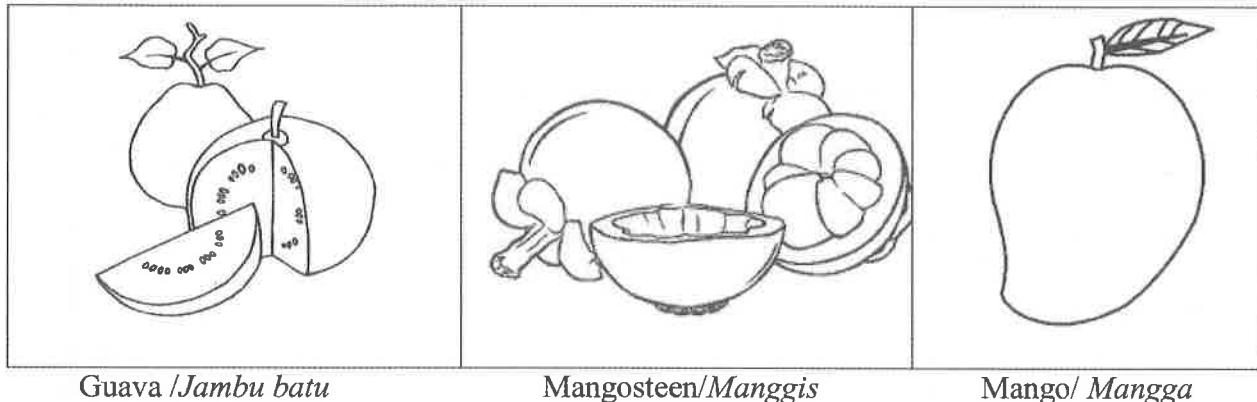
**COMPOSITION:** Each mL of sterile aqueous solution contains:  
 Sodium Ascorbate ..... 200 mg  
 Monothiopyron ..... 0.5% w/v  
 Polysorbate ..... 0.1% w/v  
 Methylparaben ..... 0.1% w/v  
 Propylparaben ..... 0.02% w/v

Store in controlled room temperature between 18° and 26°C (65-80°F).  
 Protect from light.

Diagram 2.2  
Rajah 2.2

A Research Officer in a Research and Development Department (R&D) in a company is required to build a new health supplement product which has a high amount of Vitamin C from selected local fruits in Diagram 2.3

*Seorang Pegawai Penyelidik di Jabatan Penyelidikan dan Pembangunan (R&D) dalam sebuah syarikat ditugaskan untuk menghasilkan satu produk kesihatan tambahan yang baru dimana produk tersebut mengandungi jumlah kandungan Vitamin C yang tinggi menggunakan buah-buahan tempatan seperti Rajah 2.3*



Guava /Jambu batu

Mangosteen/Manggis

Mango/ Mangga

Diagram 2.3 / Rajah 2.3

Design a laboratory experiment to determine which type of fruits shown above has the highest percentage of vitamin C.

*Reka bentuk satu eksperimen makmal untuk menentukan jenis buah yang manakah mempunyai peratusan vitamin C yang paling tinggi.*

The planning of your experiment must include the following aspects:

*Perancangan eksperimen anda hendaklah meliputi aspek-aspek berikut :*

- Problem statement  
*Pernyataan masalah*
- Hypothesis  
*Hipotesis*
- Variables  
*Pembolehubah*
- List of apparatus and materials  
*Senarai alat radas dan bahan*
- Experimental procedure  
*Prosedur eksperimen*
- Presentation of data  
*Persembahan data*

[17 marks]

[17 markah]

**END OF QUESTION PAPER**  
**KERTAS SOALAN TAMAT**

[Lihat Halaman Sebelah]















