

35. Which of the following is a characteristic of ethanol?

*Antara berikut yang manakah merupakan ciri etanol?*

- A Coloured  
*Berwarna*
- B Easily evaporated  
*Mudah meruap*
- C Non-flammable  
*Tidak terbakar*
- D Immiscible in water  
*Tidak larut campur dalam air*

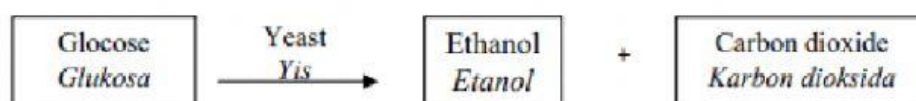
36. Which of the following is an organic compound?

*Antara yang berikut , yang manakah sebatian tak organik?*

- |  |                             |
|--|-----------------------------|
| A Sugar<br><i>Gula</i>                   | C Coal<br><i>Arang batu</i> |
| B Palm oil<br><i>Minyak kelapa sawit</i> | D Marble<br><i>Marmar</i>   |

37. What process is represented by the word equation below?

*Apakah proses yang diwakili oleh persamaan perkataan di bawah?*



- |                                       |  |
|---------------------------------------|--|
| A Hydrolysis<br><i>Hidrolisis</i>     | C Esterification<br><i>Pengesteran</i> |
| B Dehydration<br><i>Pendehidratan</i> | D Fermentation<br><i>Penapaian</i>     |

38. Diagram 16 shows an experiment carried out on natural rubber.

*Rajah 16 menunjukkan eksperimen yang dijalankan ke atas getah asli.*

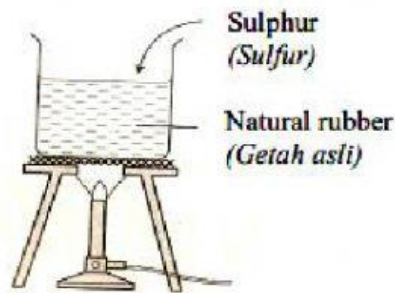


Diagram 16 / Rajah 16

What is the function of sulphur in this experiment?

*Apakah fungsi sulfur dalam eksperimen ini?*

- A To coagulate latex  
*Untuk menggumpalkan lateks*
- B To prevent the coagulation of latex  
*Untuk menghalang penggumpalan lateks*
- C To increase the hardness of natural rubber  
*Untuk meningkatkan kekerasan getah asli*
- D To make natural rubber less resistant to chemicals  
*Untuk menjadikan getah asli kurang tahan terhadap bahan kimia*

39. Pak Ali wants to export prawns to Japan. What is the most suitable method to maintain the freshness of the prawns?

*Pak Ali in gin mengeksport udang ke Jepun. Apakah kaedah untuk mengekalkan kesegaran udang itu?*

- |   |   |
|---|---|
| A Canning<br><i>Pengetinan</i>          | C Deep freezing<br><i>Penyejukbekuan</i>        |
| B Pasteurization<br><i>Pempasteuran</i> | D Vacuum packaging<br><i>Pembungkusan vakum</i> |

40. Imbalance between the increase of people with the development of food production will cause the people to suffer from

*Ketidakseimbangan antara pertambahan penduduk dengan kemajuan teknologi pengeluaran makanan akan menyebabkan manusia mengalami*

- |   |  |   |  |
|---|--|---|--|
| A | anorexia nervosa<br><i>anoreksia nervosa</i> | C | malnutrition<br><i>malnutrisi</i>          |
| B | hepatitis<br><i>hepatitis</i>                | D | food poisoning<br><i>keracunan makanan</i> |

41. Which of the following can increase the quality and quantity of food production?

*Antara yang berikut, yang manakah boleh meningkatkan kualiti dan kuantiti penghasilan makanan?*

- |     |   |    |   |
|-----|---|----|---|
| I   | Use of modern technology<br><i>Penggunaan teknologi moden</i>                       | II | Use of low quality breeds<br><i>Penggunaan baka yang rendah kualiti</i> |
| III | Giving financial aid to the farmer<br><i>Memberi bantuan kewangan kepada petani</i> |    |   |
| A   | I only<br><i>I sahaja</i>   | C  | II and III only<br><i>II dan III sahaja</i>                             |
| B   | I and II only<br><i>I dan II sahaja</i>   | D  | I,II and III<br><i>I,II dan III</i>                                     |

42. Diagram 17 shows two examples of processed food.

*Rajah 17 menunjukkan dua contoh makanan yang diproses.*



Diagram 17 / *Rajah 17*

What is the method used in processing these food?

*Apakah kaedah yang digunakan dalam memproses makanan tersebut?*

- |   |                                  |   |   |
|---|----------------------------------|---|---|
| A | Cooling<br><i>Pendinginan</i>    | C | Freeze-drying<br><i>Penyejukbekuan kering</i> |
| B | Irradiation<br><i>Penyinaran</i> | D | Vacuum-packing<br><i>Pembungkusan vakum</i>   |

43. Ali had a stomach ache after eating the food in Diagram 18. What information on the label that he over-looked?

*Ali mengalami sakit perut setelah memakan makanan di dalam Rajah 18. Apakah maklumat yang tidak diambil berat oleh Ahmad ?*



Diagram 18 / Rajah 18

- |   |                                   |   |                                     |
|---|-----------------------------------|---|-------------------------------------|
| A | Ingredients<br><i>Ramuan</i>      | C | Expiry date<br><i>Tarikh luput</i>  |
| B | Net weight<br><i>Berat bersih</i> | D | Name of food<br><i>Nama makanan</i> |
44. Diagram 19 shows one state of four stroke petrol engines.  
*Rajah 19 menunjukkan satu keadaan bagi enjin petrol empat lejang.*

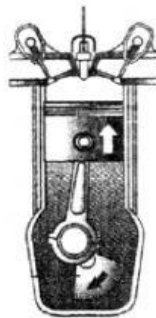


Diagram 19 / Rajah 19

What is this stroke?

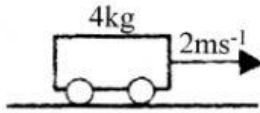
*Apakah lejang ini?*

- |   |                                       |   |  |
|---|---------------------------------------|---|--|
| A | Power stroke<br><i>Lejang kuasa</i>   | C | Induction stroke<br><i>Lejang aruhan</i>     |
| B | Exhaust stroke<br><i>Lejang ekzos</i> | D | Compression stroke<br><i>Lejang mampatan</i> |

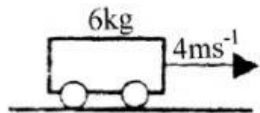
45. Which of the following trolleys has the higher momentum?

*Antara trolri berikut, yang manakah mempunyai momentum yang paling tinggi?*

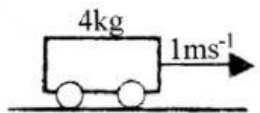
A



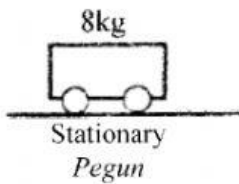
B



C



D



46. Diagram 20 shows the shape of the aerofoil of an aeroplane wing.

*Rajah 20 menunjukkan bentuk aerofoil bagi satu sayap kapal terbang.*

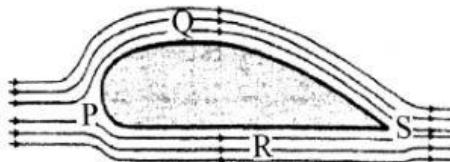


Diagram 20 / Rajah 20

Which part of the aerofoil has the lowest air speed and higher air pressure?

*Bahagian aerofoil yang manakah mempunyai kelajuan udara yang paling rendah dan tekanan udara yang paling tinggi?*

	Lowest speed <i>Kelajuan paling rendah</i>	Higher pressure <i>Tekanan udara paling tinggi</i>
A	P	R
B	Q	Q
C	R	R
D	S	Q

47. Which of the following are made of natural rubber?

*Antara yang berikut, yang manakah dibuat daripada getah asli?*

I Aeroplane tyre

*Tayar kapal terbang*

II Lining in tanks

*Lapik dalam tangka*

III Inner tyre tube

*Bahagian dalam tiub tayar*

IV Rubber glove

*Sarung tangan getah*

A I and II

*I dan II*

C I and IV

*I dan IV*

B I and II

*I dan II*

D III and IV

*III dan IV*

48. A manufacturer wants to manufacture a new set of crockery which has the following properties:

*Seorang pengilang mahu membuat satu set pinggan mangkuk baru yang mempunyai sifat-sifat di bawah:*

- |   |
|---|
| <ul style="list-style-type: none"> <li>• Hard<br/><i>Keras</i></li> <li>• Stand heat, oil and acid<br/><i>Tahan haba, minyak dan asid</i></li> <li>• Not easily discoloured<br/><i>Tidak mudah dinyahwarna</i></li> </ul> |
|---|

Which of the following plastic is suitable for the crockery above?

*Antara plastik berikut, yang manakah sesuai untuk pinggan mangkuk di atas?*

- |   |                                   |   |                             |
|---|-----------------------------------|---|-----------------------------|
| A | Polypropene<br><i>Polipropena</i> | C | Melamine<br><i>Melamina</i> |
| B | Polythene<br><i>Politena</i>      | D | Bakelite<br><i>Bakelit</i>  |

49. Diagram 21 shows the radio waves.

*Rajah 21 menunjukkan gelombang-gelombang radio.*

SW - Short wave <i>Gelombang pendek</i> VHF – Very high frequency <i>Frekuensi sangat tinggi</i> MW – Medium wave <i>Gelombang sederhana</i> UHF – Ultra high frequency <i>Frekuensi ultra tinggi</i>
--

Diagram 21 / Rajah 21

Arrange the radio wave in ascending order according to the wavelength.

*Susun gelombang radio dalam tertib menurun jarak gelombang.*

- |   |                  |
|---|------------------|
| A | SW, VHF, MW, UHF |
| B | SW, MW, VHF, UHF |
| C | UHF, VHF, SW, MW |
| D | VHF, UHF, MW, SW |

50. Diagram 22 shows a displacement distance graph of a wave.

*Rajah 22 menunjukkan graf jarak sesaran bagi suatu gelombang.*

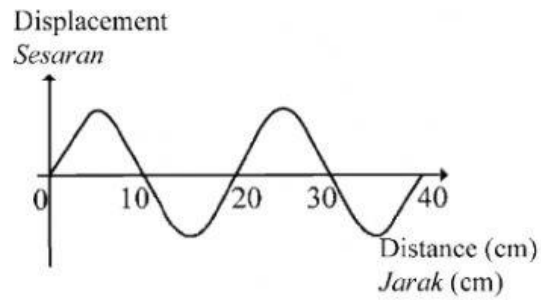


Diagram 22 / Rajah 22

If the wave frequency of the wave is  $20 \text{ s}^{-1}$ , calculate the wave velocity.

*Jika frekuensi gelombang ialah  $20 \text{ s}^{-1}$ , hitung halaju gelombang.*

- |   |                       |   |                         |
|---|-----------------------|---|-------------------------|
| A | $1 \text{ cm s}^{-1}$ | C | $200 \text{ cm s}^{-1}$ |
| B | $2 \text{ cm s}^{-1}$ | D | $400 \text{ cm s}^{-1}$ |

END OF QUESTION PAPER

*KERTAS SOALAN TAMAT*