SAMPEL PERCUMA

Modul g-CAKNA STPM Kimia Semester 1 2023

Set penuh: Kertas Percubaan STPM

Sem 1 · Kimia

Sampel ini: 4 muka surat. Set penuh ada:

- 2 fail PDF
- Semester 1: kertas percubaan (trial) negeri, subjek yang dipilih + skema
- Blueprint 30 hari Semester 1 (setiap subjek)
- Semester 3: percubaan 2024, 10 subjek, banyak negeri, soalan + skema dalam satu fail

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Sampel bermula di muka surat sebelah

Class / Tingkatan : …… Name / Nama: ……

Identity card number: …… Centre number/index number :…….....
(Nombor kad pengenalan) (Nombor pusat/angka giliran)

962/1 STPM 2023

MODUL g -CAKNA STPM PAPER 1
CHEMISTRY 1 (KIMIA)

One and a half hours (Satu jam setengah)

SIJIL TINGGI PERSEKOLAHAN MALAYSIA
(MALAYSIA HIGHER SCHOOL CERTIFICATE)

Instructions to candidates:

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO.

Answer **all** *questions in Section A.*

Answer **all** *questions in Section B.*

Answer **two** *questions only in Section C.*

All working should be shown. For numerical answers, unit should be quoted wherever appropriate.

Answers may be written in either English or Malay.

Arahan kepada calon

JANGAN BUKA KERTAS SOALAN INI SEHINGGA ANDA DIBENARKAN BERBUAT DEMIKIAN

Jawab **semua** *soalan dalam Bahagian A.*

Jawab **semua** *soalan dalam Bahagian B.*

Jawab **dua** *soalan sahaja dalam Bahagian C.*

Semua kerja yang hendaklah ditunjukkan. Bagi jawapan berangka, unit hendaklah dinyatakan di mana-mana yang sesuai.

Jawapan boleh ditulis dalam bahasa Inggeris atau Bahasa Malaysia.

For examiner‟s use (Untuk kegunaan pemeriksa)	
Section A	
Section B (*Bahagian B*)	
16	
17	
Section C (*Bahagian C*)	
Total (Jumlah)	

This question paper consists of 10 printed pages
(Kertas soalan ini terdiri daripada 10 halaman bercetak)

Section A [15 *marks*]

Answer **all** *questions.*

Indicate the correct answer on the Multiple-choice Answer Sheet provided.

1 $^{28}_{14}Si$ and $^{30}_{14}Si$ are two isotopes of silicon. The relative atomic mass of Si is 28.1. Which statement is true about these isotopes?

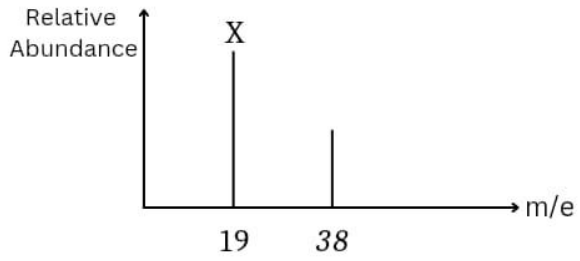
A $^{28}_{14}Si$ is smaller than $^{30}_{14}Si$.

B $^{28}_{14}Si$ and $^{30}_{14}Si$ are radioactive.

C $^{28}_{14}Si$ is more abundant than $^{30}_{14}Si$.

D The total number of sub-atomic particles in $^{28}_{14}Si$ and $^{30}_{14}Si$ is the same.

2 The mass spectrum of an element is shown below.



Which statement is true about the element?

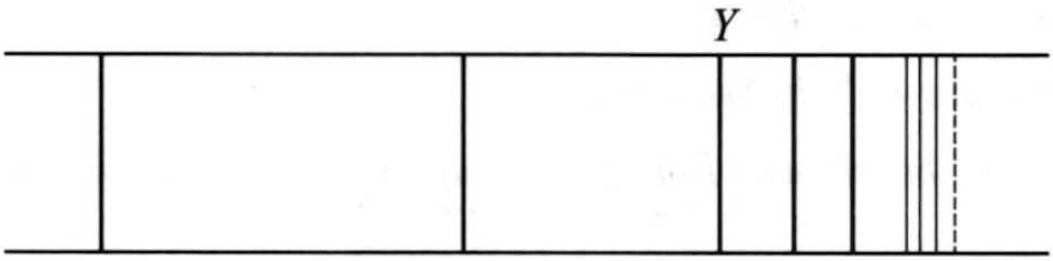
A The element has two isotopes.

B Peak X is due to a dipositive ion.

C The element is a diatomic molecule.

D The relative atomic mass of element is 38.

3 All the lines of the Lyman series in the emission spectrum of a hydrogen atom are shown in the diagram below.



Which is true about the line marked **Y** on the spectrum?

A Appears in the visible region of the emission spectrum

B The wavelength is shorter than that of the convergent limit

C Resulted from the electronic transition of energy levels n= 4 to n= 1

D The frequency can be used to determine the ionisation energy of hydrogen

4 The proton number for species X is 8 and its nucleon number is 18. Species X has two electrons less than the number of neutron. What is the charge on X?

A 0

B -1

C +1

D +2

5 Which of the following species would have the smallest M-A-M bond Angle?

[L= lone pair, A= central atom, M= terminal atom]

A AM_4

B AM_3

C AM_3L

D AM_2L_2

6 Which of the following statements regarding π-bond is correct?

A It consists of four electrons.

B It is formed by the overlap of unhybridized orbital.

C It is stronger than a σ-bond

D It cannot be formed unless the two atoms are already joined by a double bond.

7 Which of the following compounds contains more than four bonding electrons?

A $BeCl_2$

B H_2O

C $SnCl_2$

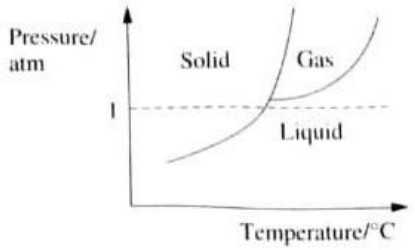
D CO_2

8 What are the lattice structure of solid diamond, iodine and silicon (IV) oxide?

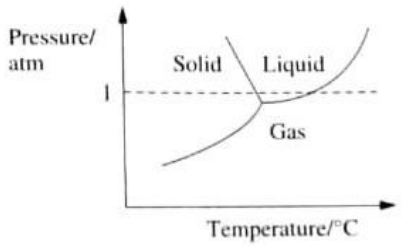
	Giant molecular	Simple molecular
A	Diamond, silicon (IV) oxide	Iodine
B	Diamond, iodine	Silicone (IV) oxide
C	Iodine	Diamond, silicone (IV) oxide
D	Silicone (IV) oxide	Diamond, iodine

9 Which phase diagram is correct for water?

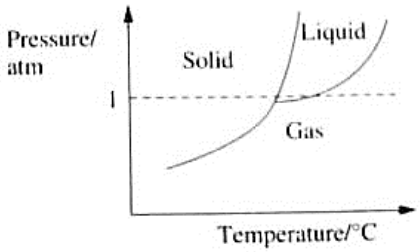
A



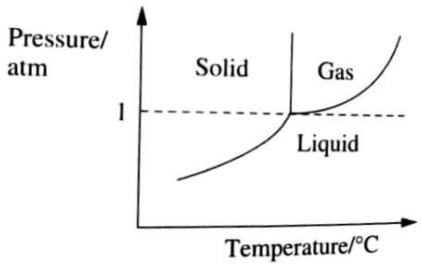
B



C



D



TAMAT SAMPEL

Suka sampel ini?

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