Register/Index Number: Class:

PRESBYTERIAN HIGH SCHOOL



SCIENCE (CHEMISTRY)

5076/1, 5078/1

Paper 1

24 August 2022

Wednesday

1 hour

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2022 SECONDARY FOUR EXPRESS / FIVE NORMAL (ACADEMIC) PRELIMINARY EXAMINATION

INSTRUCTIONS TO CANDIDATES

Write in soft pencil.

Do not use staples, paper clips, highlighters, glue or correction fluid. Write your name, class and register number on the Answer Sheet in the spaces provided.

There are **twenty** questions in this paper. Answer **all** questions. For each question there are four possible answers, A, B, C and D.

Choose the **one** you consider correct and record your choice in **soft pencil** on the separate Answer Sheet.

Each correct answer will score one mark. A mark will not be deducted for a wrong answer.

A copy of the Periodic Table is printed on page 8.

Setter: Mr Muhammad Faeez Vetted by: Ms Chan Poh Hoon

This question paper consists of **<u>8</u>** printed pages.

	melting point/ °C	boiling point/ °C
Α	-135	-0.5
B	<mark>-130</mark>	<mark>+36</mark>
С	-115	-85
D	-78	-33

1 Which of the following substances may be condensed using a water-cooled condenser?

2 A student takes 1 g sample of calcium carbonate and adds them to 10 cm³ sample of dilute hydrochloric acid at different temperatures. She measures how long it takes for the effervescence to stop.

Which apparatus does she use?

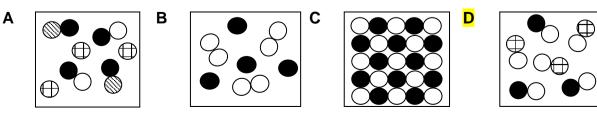
	balance	clock	filter funnel	measuring cylinder	thermometer
Α	\checkmark	\checkmark	\checkmark	\checkmark	Х
B	<mark>√</mark>	<mark>√</mark>	×	<mark>√</mark>	<mark>√</mark>
С	\checkmark	Х	\checkmark	\checkmark	\checkmark
D	х	\checkmark	\checkmark	Х	\checkmark

3 The electronic configuration of an ion is 2.8.8.

What could this ion be?

	P ³⁻	K+
A	✓	<mark>></mark>
в	\checkmark	×
С	×	\checkmark
D	×	Х

4 Which diagram shows a mixture of compounds?



5 Nitrogen is heated in a balloon, which expands slightly.

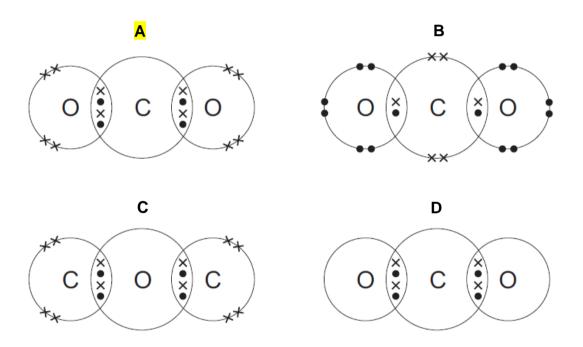
Which statements about the molecules of nitrogen are correct?

- 1 They move further apart.
- 2 They move more quickly.
- 3 They remain the same distance apart.
- 4 Their speed remains unchanged.

A	<mark>1 and 2</mark>	B 1 and 4	C 2 and 3	D 3 and 4
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6 The bonding in a molecule of carbon dioxide can be represented by a dot-and-cross diagram.

Which diagram is correct?



7 Which relative molecular mass, *M*_r, is not correct for the molecule given?

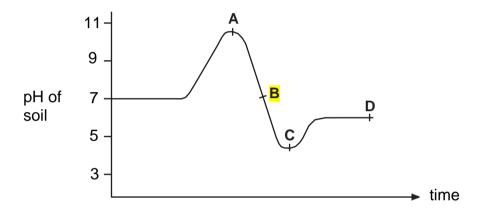
	molecule	Mr
Α	ammonia, NH₃	17
В	carbon dioxide, CO2	44
С	methane, CH4	16
D	<mark>oxygen, O</mark> 2	<mark>16</mark>

8 The water in a lake is acidic and the fish are dying. The water in the lake needs to be neutralised.

Which compound can be added in excess to neutralise the water in the lake?

- A calcium carbonate
- B phosphoric acid
- **C** sodium hydroxide
- D magnesium nitrate
- **9** The graph shows how the pH of soil in a field changed over time.

At which point was the soil neutral?



10 Two incomplete statements about the preparation of an insoluble salt are given.
.....1..... can be used to prepare insoluble salts, such as2......
The salt is collected by 3..... and it is then4......

Which words correctly complete the missing words in 1-4?

	1	2	3	4
Α	precipitation	barium nitrate	filtration	evaporated
В	precipitation	lead(II) sulfate	evaporation	washed and dried
C	precipitation	lead(II) sulfate	filtration	washed and dried
D	titration	barium nitrate	evaporation	washed and dried

- 11 A compound **X**, when heated with an aqueous solution of compound **Y**, produces a gas that turns red litmus blue.
 - 1 **Y** could be sodium hydroxide.
 - 2 Y could be potassium nitrate.
 - 3 X could be an ammonium salt.
 - 4 X is an acid.

Which statements are correct?

- A 1 and 3
- **B** 1 and 4
- **C** 2 and 3
- **D** 2 and 4
- **12** Dissolving potassium chloride in water is an endothermic change.

Which row shows the energy change and temperature change of the mixture during the dissolving of potassium chloride?

	energy change	temperature change
A	energy is absorbed	decrease
В	energy is absorbed	increase
С	energy is released	decrease
D	energy is released	increase

13 Iron is extracted from its ore in a blast furnace.

Hematite, coke, limestone and hot air are added to the furnace.

Which explanation is not correct?

- A Coke burns and produces a high temperature.
- **B** Hematite is the ore containing the iron as iron(III) oxide.
- **C** Hot air provides the oxygen for the burning.
- **D** Limestone reduces the iron(III) oxide to iron.

14 Hydrogen will form water when passed over heated oxides of **P** and **Q**, but not when passed over the oxide of **R**. Furthermore, **Q** reduces the oxide of **P**.

From the given information, which of the following can be deduced as the order of the reactivity of the elements, putting the most reactive metal first.

A P,Q,R B R,Q,P C Q,P,R D R,P,Q

15 Which process does **not** involve either oxidation or reduction?

- A burning propane in the air
- **B** heating copper(II) oxide with carbon
- **C** reacting magnesium with copper(II) sulfate
- D reacting potassium hydroxide with dilute hydrochloric acid

16 Four sources of air pollution are listed.

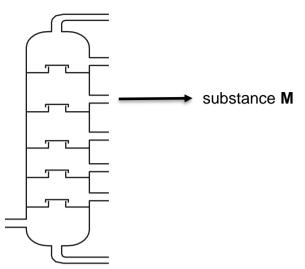
- 1 burning fossil fuels containing sulfur
- 2 nitrogen reacting with oxygen in car engines
- 3 incomplete combustion of carbon fuels
- 4 adding lead compounds to petrol

Which sources produce acid rain?

A 1 and 2 B 1 an	C 2 and 3	D 3 and 4
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- **17** Which statement about alkenes is correct?
 - **A** Alkenes are saturated hydrocarbons.
 - **B** Alkenes can be made by cracking other hydrocarbon compounds.
 - **C** Alkenes change aqueous bromine from colourless to brown.
 - **D** Alkene molecules contain double bonds between carbon atoms and hydrogen atoms.

18 The diagram shows an industrial process. Substance **M** is one of the substances produced by this process and is used as aircraft fuel.



What is this process and what is substance M?

	process	substance M
A	fractional distillation	paraffin
В	fractional distillation	petrol
С	thermal decomposition	paraffin
D	thermal decomposition	petrol

19 Ethanol is produced by the fermentation of glucose from sugar cane. In some countries ethanol is used as a fuel.

Which statements are correct?

- 1 Sugar cane is a renewable resource.
- 2 When sugar cane is growing it removes carbon dioxide from the atmosphere.
- A 1 only
- B 2 only
- **C** both 1 and 2
- **D** neither 1 nor 2
- 20 Which bond is not found in a molecule of ethanoic acid?
 - **A** C-O **B** C=O **C** C=C **D** O-H

END OF PAPER

DATA SHEET

The Periodic Table of Elements

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The volume of one mole of any gas is 24 dm³ at room temperature and pressure (r.t.p.).

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PRESBYTERIAN HIGH SCHOOL SCIENCE DEPARTMENT SUGGESTED ANSWERS

Subject: SCIENCE (CHEMISTRY) Setter: Muhd Faeez SEC 4 EXP/5N

Exam: Prelim Exam Year: 2022

Level:

	Paper 1								
Question	1	4	5						
Answer	В	В	B A D		А				
Question	6	7	8	9	10				
Answer	А	D	A	В	С				
Question	11	12	13	14	15				
Answer	А	А	D	В	D				
Question	16	17	18	19	20				
Answer	А	В	A	С	С				