

GREENLAWNS HIGH SCHOOL

FINAL EXAMINATION 2021

SUBJECT: CHEMISTRY

CLASS: VIII

TIME: 1 HOUR

MARKS: 40

Note:

- All answers to this paper must be written on composition sheet.
- You will not be allowed to write during the first 10 minutes. Use this time to read the paper carefully.
- The time given at the head of this paper is the time allowed for writing the answers.
- Write your *Name, Roll no., Class-Div.* and *Page number* in the right hand side top corner of every side of your composition sheet.
- After you finish your paper, click a clear photo of each page of your answer sheet, convert it into a PDF and rename it as follows:
Roll No., Name, Class-Div. and Chemistry Final Exam.
- Then send it to your Chemistry teacher on WhatsApp only.

Question: 1

A) Name the following:

(5)

- The charge less subatomic particle of an atom of an element
- A group of atoms of elements that behave like a single unit and show valency.
- The substance added to the catalyst to increase its efficiency. (Do not give an example)
- The gas which combines with the haemoglobin forming a stable compound Carboxyl haemoglobin.
- An allotrope of carbon which has three dimensional octahedral structures.

B) Write the symbols of the following elements:

(3)

- | | | |
|-------------|---------------|---------------|
| i) Calcium | ii) Potassium | iii) Sulphur |
| iv) Mercury | v) Nitrogen | vi) Aluminium |

C) Write the English names of the elements whose symbols are given below: (2)

- Fe
- Mg

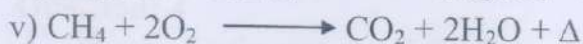
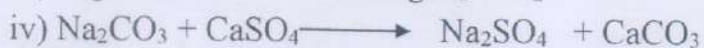
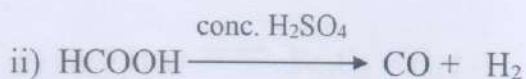
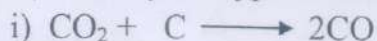
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Question: 2

A) Distinguish between the following pairs on the basis of what is given in (5) the bracket.

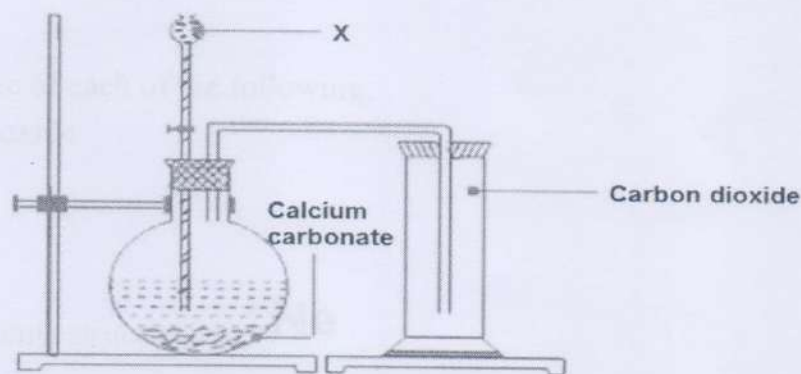
- i) Carbon dioxide and Carbon monoxide (colour of lime water on reaction)
- ii) Diamond and Graphite (Density)
- iii) Cation and Anion (Type of charge)
- iv) Protium and Tritium (Number of neutrons)
- v) Electrolytic decomposition and Photochemical decomposition (Meaning)

B) Identify the type of chemical equations. (5)



Question: 3

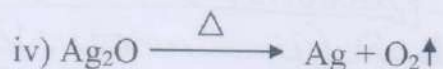
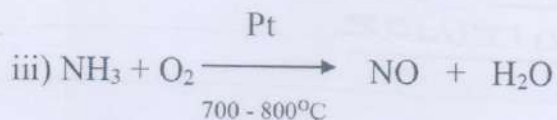
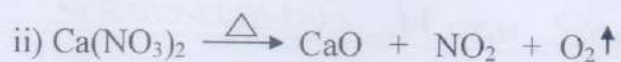
A) The figure given below represents the laboratory preparation of Carbon (5) dioxide gas. Observe the figure carefully and answer the questions that follow:



- i) Name the substance x.
- ii) Name the method of collection of gas.
- iii) Why the gas is collected by the method mentioned by you in the above answer? Give 2 points.
- iv) Why the gas is passed through a wash bottle containing KHCO_3 solution?
- v) Give a balanced chemical equation for the preparation of Carbon dioxide by the method as shown in the figure.

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B) Balance the following chemical equations: (5)



Question: 4

A) Give scientific reasons of the following: (4)

- i) Graphite is used as an electrode in an electrolytic cell.
- ii) Chlorine whose atomic number is 17 shows - 1 valency.
- iii) Allotropes of carbon show similar chemical properties.
- iv) The workers in factories should be made to wear a gas mask made of hopcalite.

B) Give one use of each of the following: (3)

- i) Carbon monoxide
- ii) Lamp black
- iii) Diamond

C) Draw an atomic structure of ${}_{10}^{20}\text{Ne}$ (3)

BEST OF LUCK.