

6.12.19

STD: IX

Marks:25

## I. Assertion and Reasoning:

1x1=1

1.[A] The cluster of atoms that act as an ion are called polyatomic ions

[R] They carry a fixed charge on them

a)[A] is correct [R] is wrong.

b)[A] is wrong [R] is correct.

c)Both [A] and [R] are correct.

d)Both [A] and [R] are incorrect

## II. Fill in the blanks:

2x1=2

1.The number of atoms present in 1g of hydrogen is -----

2.The positively charged ion is called -----

## III. Choose the correct answer:

3x1=3

1.How many molecules are present in 9g of water?

a)3.011x10<sup>23</sup> molecules b)4.2x10<sup>23</sup> molecules

c)18x10<sup>23</sup> molecules d)24x10<sup>23</sup> molecules

2.The atomicity of the compound CH<sub>4</sub> is

a)2 b)5 c)3 d)4

3.The chemical formula of sodium oxide is

a)NaO b)Na<sub>2</sub>O c)Na<sub>2</sub>O<sub>3</sub> d)NaO<sub>4</sub>

## IV. Very short answer:

5x1=5

1.What are polyatomic ions? Give one example.

2.Calculate the number of molecules present in 20g of CO<sub>2</sub>.

3.Write the chemical formula of the compound Ammonium sulphate.

4.What is Avagadro Constant? How it is represented?

5.Convert 40g of Oxygen gas into moles.

## V. Answer in Brief:

3x3=9

1.What is the atomicity of

a)C<sub>2</sub>H<sub>6</sub>

b)CH<sub>3</sub>COOH

c)NH<sub>3</sub>

2.Calculate the molecular mass of

a)CaCl<sub>2</sub>

b)Al<sub>2</sub>O<sub>3</sub>

(atomic mass of Ca – 40u, Cl- 35.5u, Al-27u and Oxygen – 16u)

3.Define molecule of element and molecule of compound. Give examples for each.

## VI. Answer in Detail:

1x5=5

1. a) Define mole

b) Calculate the number of moles for the following.

i)75g of H<sub>2</sub>SO<sub>4</sub>

ii)90g of Na<sub>2</sub>SO<sub>4</sub>

(atomic mass of H – 1g, S – 32g, O – 16g and Na – 23g)

I.Explain With Reference To The Context : (5X1=5)

'Please give me a ride on your back!'  
 Said the Duck to the Kangaroo.  
 'I would sit quite still, and say nothing but "Quack",  
 The whole of the long day through!  
 And we'd go to the Dee, and the Jelly Bo Lee,  
 Over the land, and over the sea;  
 Please take me a ride! O do!'  
 Said the Duck to the Kangaroo.

- (a) What request did the Duck make to the Kangaroo?
- (b) What did the Duck promise to do?
- (c) What did the Duck promise not to do?
- (d) What places did he want to go to?
- (e) How could he go over the land and the sea?

II. Answer In Short: (5X2=10)

- 1.What did the Duck promise the Kangaroo and why?
- 2.What did the Duck wish to do after leaving her pond? What places did she wish to visit in particular? Was she wish fulfilled?
- 3.What preparations did the Duck make for her ride on the Kangaroo's back?
- 4.What instructions did the Kangaroo give the Duck before starting the journey? Did the Duck comply with the instructions?
- 5.What did the Duck do to remove the Kangaroo's objection?

III. Rearrange the given words/phrases to make meaningful sentences. (4X1=4)

- (a) the ocean/came up/the rising/over/sun
- (b) surrounded/waves/I was/large/by/oceanic

- (c) pink/the sky/turned/and swept/the clouds/across
  - (d) no land/alarmed/visible/I grew/there was/because
- IV.Complete the following passage by filling in the blanks.  
 Write the answers in the space provided. (6x1=6)

Time once gone (a) ..... never be recalled. Opportunities (b) ..... chances do knock at your door (c) ..... it is upto you to make use of them. So you (d) ..... remain alert and vigilant. (e) ..... the tide turns in favour, you must swim (f) ..... the shore.

- |              |               |             |              |
|--------------|---------------|-------------|--------------|
| (a) i) can   | ii) could     | iii)should  | iv)will      |
| (b) i) or    | ii) and       | iii)because | iv)for       |
| (c) i)nor    | ii) but       | iii)since   | iv)so        |
| (d) i)should | ii) shouldn't | iii)could   | iv) couldn't |
| (e) i) of    | ii) for       | iii)If      | iv) since    |
| (f) i) to    | ii) too       | iii) though | iv)for       |

