

## Subject:Chemistry(Subjctive)

## 2- Attempt any five short Questions

- 1 Define Homogenous mixture and give example. 1
- 2 Differentiate between gram atomic mass and gram molecular mass. 2
- 3 Calculate the formula mass of sodium sulphate. 3
- 4 Which isotopes are called radioactive Isotopes? 4
- 5 What is the use of Iodine-131 and Technetium? 5
- 6 What is the trend of electro negativity in the periodic table? 6
- 7 Name the elements of the 1st group. 7
- 8 What are triads? Give example. 8

## 3-Attempt any five short Questions

- 1 Define triple covalent bond and give example. 1
- 2 Define bonding electron. 2
- 3 What is meant by Metallic bond? 3
- 4 Define double covalent bond and give example. 4
- 5 What is the difference between evaporation and boiling point? 5
- 6 Define Dynamic equilibrium. 6
- 7 Why density of gases is less than liquid? 7
- 8 What is meant by condensation? 8

## 4-Attempt any five short Questions

- 1 Define molar solution and give example. 1
- 2 Write two properties of suspensions. 2
- 3 Why  $O_2$  is necessary for rusting? 3
- 4 What are by-products are produced in Nelson cell? 4
- 5 What is rusting? 5
- 6 Write any two chemical properties of halogens. 6
- 7 Write any two uses of sodium. 7
- 8 How is platinum used as a catalyst in automobile? Give its advantage. 8

## Attempt any two Questions

1 (a) Explain different types of molecules with examples.

1 (a) مالیکیولز کی مختلف اقسام کی مثالوں سے وضاحت کریں۔

(b) Write down the characteristics of Cathode rays.

(b) کیتھوڈ ریز کے خصوصیات بیان کریں۔

2 (a) Describe the properties of metals.

2 (a) میٹلز کے عمومی خواص بیان کریں۔

(b) Define evaporation. Discuss the different factors affecting evaporation.

(b) ایوپیوریشن کی تعریف کریں اور اس پر اثر انداز ہونے والے عوامل بیان کریں۔

3 (a) Discuss the effect of temperature on solubility.

3 (a) سولوبیلٹی پر ٹمپریچر کا اثر بیان کریں۔

(b) How can we prepare NaOH on commercial scale? Discuss its chemistry along with diagram.

(b) تجارتی پیمانے پر NaOH کیسے تیار کیا جاتا ہے؟ اس کی ڈیاگرام سے وضاحت کریں۔