

- Q.33 Classify the matter.  
Q.34 Write about the Valence bond theory.  
Q.35 Write down the mass & charges of electron, Proton & Neutron.

No. of Printed Pages : 4

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**1st Sem / Branch : DMLT**

**Subject:- Basic Chemistry**

Time : 3Hrs.

M.M. : 100

**SECTION-D**  
**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the process of electrolysis with its application.  
Q.37 Define Solution. Explain the types of Solution.  
Q.38 Define Hard water. Write the process of purification of hard water.

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Material which allow electricity to pass through them is called \_\_\_\_\_  
a) Conductor      b) Insulator  
c) Both a & b      d) None of above
- Q.2 Water which contains salts of calcium & magnesium is called \_\_\_\_\_  
a) Soft water      b) Hard water  
c) Distilled water      d) None of above
- Q.3 Symbolic representation of a chemical compound is called its \_\_\_\_\_  
a) Mass      b) Formulae  
c) Molecular weight      d) None of above
- Q.4 SI unit of Time is  
a) Minute      b) Second  
c) Hour      d) All of above
- Q.5 Atom is the \_\_\_\_\_ Particle of an element  
a) Largest      b) Biggest  
c) Smallest      d) None of above

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121912/031912

Q.6 SI unit of stans for \_\_\_\_\_

- a) Specific International
- b) Standard Integral
- c) System International
- d) None of above

Q.7 \_\_\_\_\_ substance made from only one type of substance is called

- a) Matter
- b) Element
- c) Mixture
- d) All of above

Q.8 Process of coating an inferior cheap metal with superior metal is called

- a) Conductor
- b) Insulator
- c) Electroplating
- d) Electrolysis

Q.9 A mixture made by combining two liquids that normally do not mix is called \_\_\_\_\_

- a) Emulsion
- b) Gel
- c) Colloid
- d) None of above

Q.10 Process of attracting & retaining the molecules of a substance on surface is called \_\_\_\_\_

- a) Absorption
- b) Adsorption
- c) Electrolysis
- d) None of above

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define Conductors.

Q.12 Define Solution.

Q.13 Write down the oxidation reaction of Zn.

(2)

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Q.14 Write any two difference between metallic and electrolytic conductors.

Q.15 What is adsorption?

Q.16 What is Reduction?

Q.17 Draw the pH scale.

Q.18 Define Formula.

Q.19 Write down the SI unit of pressure and Density.

Q.20 Give two examples of metalloids.

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain Electrolytes and its types.

Q.22 What is the difference between hard and soft water?

Q.23 What is emulsions, and write any two application of it.

Q.24 Classify adsorption.

Q.25 Write down the characteristics of solution.

Q.26 Explain Neutralization.

Q.27 Write down the characteristics of buffer.

Q.28 Explain types of Equilibrium.

Q.29 Explain Acid Base titration.

Q.30 Explain distillation process for purification of water.

Q.31 Differentiate between hard and soft water.

Q.32 Write a short note on cleaning action of soap.

(3)

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