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221912

**NEP / 1st Sem. / MLT**  
**Subject : Basic Chemistry**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 pH value of pure water is

- a) 5                                      b) 7
- c) 6                                      d) 8

Q.2 When gas is ionized \_\_\_\_\_ is formed

- a) ozone                                      b) molecules
- c) plasma                                      d) current

Q.3 pH means

- a) potential of hydrogen
- b) presence of hydrogen
- c) presence of hemoglobin
- d) power of hemoglobin

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Q.4 The most abundant element in the universe is

- a) hydrogen                                      b) oxygen
- c) carbon dioxide                                      d) silicon

Q.5 Substance which increase the reaction rate is

- a) metal                                      b) catalyst
- c) enzymes                                      d) alloy

Q.6 \_\_\_\_\_ does not form lather with soap.

- a) Hard water                                      b) Soft water
- c) Acidic Water                                      d) Distilled water

**SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 What is meant by organic compounds?

Q.8 What is evaporation.

Q.9 Define solution.

Q.10 What is photometry?

Q.11 What are the sources of water.

Q.12 Give two examples of underground water

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### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write a short note on Osmosis.
- Q.14 Write a short note on Equilibrium state.
- Q.15 Write a short note on Electrolytes.
- Q.16 Write down the principle of Reduction reaction.
- Q.17 What is covalent bond & its theory.
- Q.18 Write down the difference between hard water and soft water.
- Q.19 Explain Acid-base titration.
- Q.20 What are the good qualities of water.
- Q.21 Write a note on any one law of photometry.
- Q.22 What are the characteristics of solutions.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Give the classification of carbohydrates and their nutrition effect on human body?

Q.24 Explain about the following

- a) Surface Tension
- b) Viscosity

Q.25 Write a brief note on the different types of Hazards in laboratory?