

No. of Printed Pages : 4

221912

Roll No. ....

**1st Sem. / DMLT**

**Subject : Basic Chemistry**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 The atomic mass of hydrogen is

- |      |      |
|------|------|
| a) 2 | b) 3 |
| c) 4 | d) 1 |

Q.2 \_\_\_\_\_ is known as universal solvent.

- |             |                 |
|-------------|-----------------|
| a) Mercury  | b) Water        |
| c) Chlorine | d) All of these |

Q.3 \_\_\_\_\_ are the materials that allow electricity to flow through them.

- |               |                  |
|---------------|------------------|
| a) metal      | b) conductor     |
| c) metalloids | d) None of these |

Q.4 The chemical formula of hydrogen peroxide is \_\_\_\_\_

- |                           |                           |
|---------------------------|---------------------------|
| a) $\text{H}_2\text{O}_2$ | b) $\text{H}_2\text{O}$   |
| c) $\text{O}_2$           | d) $\text{H}_2\text{O}_3$ |

Q.5 \_\_\_\_\_ is the strong base

- |         |                  |
|---------|------------------|
| a) NaOH | b) OH            |
| c) Na   | d) None of these |

Q.6 When acid and base react, it form

- |                |                  |
|----------------|------------------|
| a) Salt        | b) Water         |
| c) Both I & II | d) None of these |

**SECTION-B**

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

Q.7 What are carbohydrates?

Q.8 What is organic compound?

Q.9 What are conjugated proteins?

Q.10 Write about safety precautions.

Q.11 Due to \_\_\_\_\_ the taste of water is salty. (Calcium /Sodium)

Q.12 \_\_\_\_\_ are the chemical compounds that can dissolve in water & form Ions. (Electrolytes / non-electrolytes)

### SECTION-C

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

- Q.13 What are bio safety levels.
- Q.14 Give the uses of distilled water.
- Q.15 What are chemical hazards?
- Q.16 Write the applications of photometry.
- Q.17 Differentiate between organic and inorganic compounds.
- Q.18 What is the difference between solution and colloids.
- Q.19 Give the different types of standard solutions.
- Q.20 What is GLP. Explain application of it.
- Q.21 Write the safety guidelines of Chemistry lab.
- Q.22 How does pH level affect the human body.

### SECTION-D

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

- Q.23 Give the basic chemistry of proteins and write its nutritional effect on humans?

Q.24 What is pH scale. Explain choice of indicators for acid base titration.

Q.25 Explain the various laws of photometry.