

## **SECTION-B**

**Note:** Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Briefly discuss Rutherford's Atomic Model.
- Q.12 Write a short note on s-block elements.
- Q.13 What do you understand by metallic bond?
- Q.14 Define ionic bond. What are the properties of ionic compounds?
- Q.15 What are the characteristics of a good fuel?
- Q.16 Define Permanent Hardness of water. What are the causes of permanent hardness.
- Q.17 Briefly discuss the electrochemical theory of corrosion.
- Q.18 State difference b/w the thermoplastic & thermosetting polymers.

## **SECTION-C**

**Note:** Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

- Q.19 Discuss the preparation, properties and Uses of water gas.
- Q.20 a) Define priming & foaming. What are the disadvantages of priming & foaming?  
b) Write a short note on cementation.

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**DVOC (Ref. & Air Cond., Medical Imaging Tech,  
Auto, Servicing, ITM, PT, SD, AMT, FP, EMS  
1st Sem. / Level 3**

**Subject : APPLIED CHEMISTRY**

Time : 2 Hrs. M.M. : 50

## **SECTION-A**

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

- Q.1 The shape of s-orbital is \_\_\_\_\_.
- Q.2 Electronic Configuration of Carbon is \_\_\_\_\_.
- Q.3 Modern periodic table is based on atomic \_\_\_\_\_ (number/volume).
- Q.4 In the periodic table on moving down the group, ionisation energy \_\_\_\_\_ (decreases/increases)
- Q.5 Physical state of ionic compound is. \_\_\_\_\_ (Solid/molten)
- Q.6 Calorific value of a fuel is expressed as \_\_\_\_\_.
- Q.7 pH of acidic solution is \_\_\_\_\_ than 7. (more/less)
- Q.8 The most corrosive medium is \_\_\_\_\_ (basic/acidic)
- Q.9 Commonly used vulcanising agent is \_\_\_\_\_.
- Q.10 Monomer unit of polythene is \_\_\_\_\_.