

## **SECTION-B**

**Note:** Short answer type questions. Attempt any six questions out of Eight questions.  $(6 \times 5 = 30)$

- Q.11 Write the postulate of Bohr's Atomic Model.
- Q.12 Write a short note on d-block elements.
- Q.13 What do you understand by metallic bond?
- Q.14 Define covalent bond what are the Properties of calorific compounds?
- Q.15 Define calorific value . What are the types of calorific value?
- Q.16 Define temporary hardness of water. What are the causes of temporary hardness?
- Q.17 Define corrosion. Explain chemical theory of corrosion.
- Q.18 write the preparation and uses of PVC.

## **SECTION-C**

**Note:** Long answer type questions. Attempt any one questions out of two questions.  $(10 \times 1 = 10)$

- Q.19 Define fuel Discuss classification of fuel What are the characteristics of a good fuel?
- Q.20 (a) Define caustic embrittlement what are the disadvantages of caustic embrittlement in boilers?  
(b) Write a short note on hot dipping.

No. of Printed Pages : 2

Roll No. ....

188414

DVOC (Level 3 )

Sem 1st / Ref & Air Cond., Medical Imaging  
Tech. Auto Serving, ITM, PT, SD, AMT, FP, EMs  
Subject : Applied Chemistry

Time : 2 Hrs.

M.M. : 50

## **SECTION-A**

**Note:** Very short answer type questions . Attempt all ten question  $(10 \times 1 = 10)$

- Q.1 Name the quantum no. that determines the shapes of the orbital.
- Q.2 Define Aufbau's Rule
- Q.3 Alkali metals belong to \_\_\_\_\_ block elements (S/P)
- Q.4 Atomic radius of oxygen is \_\_\_\_\_(less/more) than nitrogen.
- Q.5 Ionic compounds consist of \_\_\_\_\_ charged ions ( same /opposite)
- Q.6 In a good fuel , the % of carbon is \_\_\_\_\_ ( low / more)
- Q.7 PH of basic solution is \_\_\_\_\_ 7 (less / more )
- Q.8 The chemical composition of corrosion product of iron is \_\_\_\_\_
- Q.9 Bakelite is an example of \_\_\_\_\_ polymer.
- Q.10 The chemical formula of monomer of polythene.