

**Roll no.**

ID: 220024

Semester: 2<sup>nd</sup>

**Branch: Automobile, Mechanical, Mechanical (Tool & Die Design)**

## **Subject Name: Applied Chemistry**

## **Time Allowed : 3 Hrs.**

MM: 60

## **Section -A**

**Note: Multiple Choice questions. All questions are compulsory.**

$$6 \times 1 = 6$$



## **Section-B**

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

- Q.7 Brass is an alloy of copper and \_\_\_\_\_. (CO-2)  
Q.8 Metals are solid except \_\_\_\_\_. (CO-1)  
Q.9 Write the full form of LPG. (CO-3)  
Q.10 Give an example of solid lubricant. (CO-3)  
Q.11 PVC stands for Polyvinyl chloride. (True/ False). (CO-4)  
Q.12 Coating of Iron with Zinc by hot dipping is called \_\_\_\_\_. (CO-5)

## **Section –C**

**Note: Short answer type Questions. Attempt any eight questions out of ten questions.**

$$8 \times 4 = 32$$

- Q.13 Write four characteristics of covalent compounds. (CO-1)

Q.14 Explain froth flotation process for the concentration of sulphide ore. (CO-2)

Q.15 Write four differences between Sigma ( $\sigma$ ) bond and Pi ( $\pi$ ) bond. (CO-1)

Q.16 Calculate the molarity of a solution containing 0.5gm of NaOH dissolved in 250ml of solution. (CO-2)

Q.17 Explain flash point and fire point. (CO-3)

Q.18 What is polythene? Write its three uses. (CO-4)

Q.19 Write a short note on Galvanizing. (CO-5)

Q.20 Discuss the difference between dry and wet corrosion. (CO-5)

Q.21 Explain condensation polymerization with example. (CO-4)

Q.22 State four uses of non-metals. (CO-1)

### **Section-D**

**Note: Long answer questions. Attempt any two questions out of three questions.**

**2x8=16**

- Q.23 Explain Ion Exchange process of removal of hardness of water. (CO-2)
- Q.24 (a) Write four characteristics of a good fuel. (CO-3)  
(b) Write a short note on C.N.G. (CO-3)
- Q.25 (a) Write four characteristics of a good lubricant. (CO-3)  
(b) Explain pyrometallurgy and hydrometallurgy. (CO-1)