

No of printed pages: 01

Supervisor sign .....

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A Charutar Vidya Mandal's Institution  
**V.P. & R.P.T.P. SCIENCE COLLEGE**  
(AUTONOMOUS) (Grant-in-Aid)  
Affiliated to Sardar Patel University  
VALLABH VIDYANAGAR-388120



BSC (Semester V) Quiz - 2025

US05MIICH09 : FUNDAMENTALS OF INORGANIC CHEMISTRY

Date: 25/09/2025 Day: Thursday

Time: 10:45 am to 11:45 am

Total marks: 20

**Q-1 Fill in the blanks with appropriate answer given in the bracket. OR Answer with either true or false.** [06]

- (i) Reaction of  $\text{CO}_2$  and ..... Yield organic carboxylic acid.  
(a) Grignard reagent (b) Alkane (c) Alkene (d) Cycloalkane
- (ii)  $(\text{CH}_3)_2\text{AlF}$  have cyclic structure ..... having Al-F-Al bridges?  
(a) Monomeric (b) Dimeric (c) Trimeric (d) None
- (iii) What is the shape of cyclopentadiene ferrous(II) ?  
(a) Sandwich (b) Tetrahedral (c) Linear (d) Spherical
- (iv) Which of the following furnace is used for manufacturing of cast iron?  
(a) Blast (b) Reverbetary (c) Electrolysis (d) None
- (v) Which of the following metals are available in free state?  
(a) Ag, Au, Pt (b) Ca, Mg, Al (c) Cu, Ni, Fe (d) None
- (vi) Which of the following metal will give green malachite as an ore?  
(a) Zinc (b) Silver (c) Nickle (d) Copper



**O.2: Long Question**

[07]

(A) Discuss the general method of preparation of organometallic compounds.

OR

(B) Give the synthesis, physical properties, structure and chemical reaction of ferrocine.

**O.3: Long Question**

[07]

(A) Describe the froth floatation process and magnetic separation process for the concentration of ores.

OR

(B) Give the name of chief ore of copper and discuss extraction method of copper metal.

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**US05MIICH09 : FUNDAMENTALS OF INORGANIC CHEMISTRY**

Date: 25/09/2025 Day: Thursday

Time: Maximum 10 minutes

Total marks: 05

**Q-1 Fill in the blanks with appropriate answer given in the bracket. OR Answer with either true or false.**

- (i) Organomettallic compounds are soluble in ..... solvents. (Non-polar/Polar)
- (ii) ..... compound do not included in organomettallic compounds? (Carbides/Carbonates of metals)
- (iii) ..... is the example of metal-olefin (alkyne) complex? ( Zeise's salt/Common Salt)
- (iv) The latin name of lead is ..... (Auras/Plumbum)
- (v) ..... is the process of heating the ore strongly in excess of air. (Calcilation/Roasting)

