

Padasalai⁹S Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padasalai's NEWS Group https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padasalai's Channel Group https://t.me/padasalaichannel
- Lesson Plan Group https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw
- 12th Standard Group https://t.me/Padasalai 12th
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- 9th Standard Group https://t.me/Padasalai 9th
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- 1st to 5th Standard Group https://t.me/Padasalai_1to5
- TET Group https://t.me/Padasalai_TET
- PGTRB Group https://t.me/Padasalai_PGTRB
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******** CHAPTER1 METALLURGY IMPORTANT QUESTIONS

- 1. What Is A Mineral? And What Is An Ore? (Pg.No:2)
- 2. Differentiate Ore And Mineral With Suitable Example. (Pg.No:2)
- 3. What Are The 3 Metallurgical Processes Involving In Extraction Of Metal Of Interest. (Pg.No:2)
- 4. Write The Ores Of 1) Al 2) Fe 3) Cu 4) Zn 5) Pb 6) Ag 7) Sn With Formula. (*Pg.No:3*)
- 5. Write A Note On Gangue (Or) Matrix. (Pg.No:3)
- 6. Write About Concentration Of Ores. (Pg.No:3)
- 7. Write A Note On Hydraulic Wash (Or) Gravity Separation. (Pg.No:3)
- 8. Briefly Explain The Process Of Froth Floatation. (Pg.No:4)
- 9. Why Na(Cn) And Na₂co₃ Are Used In Froth Floatation. (Pg.No:4)
- 10. Define Leaching. (Pg.No:4)
- 11. Write A Note On Cyanide Leaching Of Au. (Pg.No:4)
- 12. What Is Cementation Process? (Pg.No:5)
- 13. Write A Note On NH_3 Leaching. (Pg.No:5)
- 14. Write A Note On Alkali Leaching. (Pq.No:5)
- 15. Write A Note On Acid Leaching. (Pg.No:5)
- 16. How Ferromagnetic Ores Are Separated From Impurities? (Pq.No:6)
- 17. Write About Extraction Of Ores. (Pg.No:6)
- 18. What Is Roasting? (Pg.No:6)
- *19. Why Sulphurs Are Trapped And Converted To H₂SO*₄ *During Roasting? (Pg.No: 7)*
- 20. What Is Calcination And How You Differentiate It With Roasting. (Pg.No:6-7)
- 21. Write A Note On Smelting. (Pg.No:8)
- 22. What Is A Flux? (Pq.No:8)
- 23. What Is A Slag? (Pg.No:8)
- 24. Write About Reduction Of Metals By Carbon. (Pg.No:9)
- 25. Write About Reduction Of Metals By Hydrogen. (Pg.No:9)
- 26. Write About Reduction Of Metals By Using Another Metal. (Pg.No:9-10)
- 27. Write A Short Note About Ellingham Diagram. (Pg.No:12)
- 28. What Are The Observations Obtained From Ellingham Diagram? (Pq.No:12)
- 29. What Are The Applications Of Ellingham Diagram? (Pg.No:13)
- 30. What Are The Limitations Of Ellingham Diagram? (Pg.No:13)
- 31. Briefly Explain The Electrochemical Principles Of Metallurgy. (Pg.No:14)

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- 32. Write A Note On Hall Herold Process. (Pg.No:14-15)
- 33. Write About Refining Process. (Pg.No:15)
- 34. Write A Note On Distillation & Liquation. (Pg.No:15)
- 35. Write A Note On Electrolytic Refining. (Pg.No:15-16)
- 36. Write A Note On Zone Refining. (Pg.No:16)
- 37. Write A Note On Vapour Phase Method. (Pg.No:16)
- 38. Write A Note On Mond's Process. (Pg.No:16)
- 39. Write A Note On Van Arkel Method. (Pg.No:17)
- 40. Write The Applications Of 1) Al 2) Zn 3) Fe 4) Cu 5) Au. (Pg.No:17-18)
- 41. Write Your Facts About Iron Pillar Of Delhi. (Pg.No:18)
- Notes. 1). Refer Book Back Questions And Problems Too....
 - 2). For All The Given Questions, Diagram Should Be Drawn If It Is Necessary.
- 3). The Question Bank Consists Of 2 Mark, 3mark & 5 Mark Questions. For Answers Refer Textbook Or Notes Given By Chemistry Teacher (*T.BABU SIR*) Or Refer Any Other Study Materials.

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EXAM NO: _____

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CHEMICAL KINETICS - IMPORTANT QUESTIONS

- 1. Define: Chemical Kinetics. (Pg.no: 205)
- 2. Define: Rate. (Pg.No:205)
- 3. Explain The Rate Of A Chemical Reaction. (Pg.No:205)
- 4. Define The Unit Of Rate Of A Reaction. (Pg.No:206)
- 5. How Does We calculate the average and instantaneous rate? (pg.no:207-208)
- 6. Define: 1) rate law 2) rate constant. (pg.no:208).
- 7. Differentiate between rate and rate constant of a reaction. (pg.no:209-210)
- 8. What is an elementary reaction? (pg.no:210)
- 9. What is a molecularity of a step? (pg.no:210)
- 10. Differentiate between order and molecularity. (pg.no:210)
- 11. Derive integrated rate law for a 1st order reaction. (pg.no:212-213)
- 12. Write a note on pseudo 1st order reaction. (pg.no:214)
- 13. Derive integrated law for a 0th order reaction. (pg.no:214-215)
- 14. Derive an equation for half life period of a reaction and define it. (pg.no:215)
- 15. How does you calculate the ½ life period for a 0th order reaction? (pg.no:216)
- 16. Define: collision theory. (pg.no:217)
- 17. Derive Arrhenius equation for the effect of temperature on reaction rate. (pg.no:219)
- 18. What are the factors that affect the reaction rate? And explain that factors. (pg.no:222-223)
- 19. Define: pharmacokinetics.(pg.no:225)
- 20. Write the uses of chemicals in pharmaceuticals. (pg.no:225)

Notes. 1). Refer Book Back Questions And Problems Too....

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September 3, 2019

5.CO ORDINATION CHEMISTRY IMPORTANT QUESTIONS

- 1. What Is A Co Ordination Compound? (Pg.No: 131)
- 2. Explain Werner's Theory And Its Postulates. (Pg.no: 131-132)

- 3. Important Components Pertaining To Co Ordination Compounds. (Pg.No:133)
- 4. Explain The Types Of Complexes And Classify Based On 1) Net Charge Of Complex. 2) Kind Of Ligands. (Pg.No: 135)
- 5. How Will Name A Complex Compound? (Pg.No: 136)
- 6. Explain The Types Of Isomers In Co Ordination Compounds. (Pg.No: 141-146)
- 7. Explain Valence Bond Theory And Its Postulates. (Pg.No: 147)
- 8. Find The Magnetic Moments Of Given Complex Using Vb Theory.
 1) $[Ni(Co)_4]^o$ 2) $[Ni(CN)_4]^{2-}$ 3) $[Fe(CN)_6]^{3-}$ 4) $[CoF_6]^{3-}$ (pg.no :149-152)

- 9. Limitations Of Vb Theory. (Pg.No : 152)
- 10.Crystal Field Theory. (Pg.No: 153-155)
- 11.CFSE. (pg.no: 157 upto examples(pg.no: 158))
- 12. Classify The Types Of Metal Carbonyls. (Pg.No: 161-162)
- 13.Explain The Bonding In Metal Carbonyls. (Pg.No:162-163)
- 14.Explain About Stability Constant. (Pg.No: 163-164)
- 15. Explain The Uses Of Complex Compounds. (Pg.No: 166)

CHAPTER 6- SOLID STATE IMPORTANT QUESTIONS

- 1 Write About Solid State In Your Own Words (Pg.No:177)
- 2 What Are The Two Major Types Of Solid And Differentiate Them (Pg.No:177-178)
- 3 Write A Note On Isotropy And Anisotropy. (Pg.No:178)
- 4 Discuss About Ionic Solid And Its Characteristics (Pg.No:179)
- 5 Discuss About Covalent Solid And Its Characteristics (Pg.No:179)
- 6 Discuss About Molecular Solid And Its Characteristics (Pg.No:179)
- 7 Mention The Types Of Molecular Solid And Explain Them (Pg.No:179-180)
- 8 Why Graphite Is Used In Pencil & In Lubricants? (Pg.No:179)
- 9 Discuss About Metallic Solid (Pg.No:180)
- 10 What Is Crystal Lattice? (Pg.No:180)
- 11 Why Ionic Crystals Are Hard And Brittle? (Book Back Question)
- 12 Define Unit Cell. And Explain How It Is Characterised? (Pq.No:180)
- 13 Write A Note On Primitive And Non Primitive Unit Cell (Pg.No:181)
- 14 Mention Seven Primitive Crystalline Systems (Pq.No:181)
- Write About Simple Cubic Unit Cell (Pg.No:183)
- 16 Write About Body Centred Cubic Unit Cell (Pg.No:183)
- 17 Write About Face Centred Cubic Unit Cell (Pg.No:184)
- 18 Write Bragg's Equation And Explain It (Pg.No:184)
- 19 How Do You Calculate The Density Of Unit Cell (Pg.No:184-185)
- 20 Write A Note On Linear Arrangement Of Spheres In A Direction (Pg.No:186)
- 21 In How Many Ways That The 2 Dimensional Close Packing Is Done. Explain? (Pg.No:186)
- 22 How Do You Calculate The Packing Efficiency Of An Arrangement? (Pg.No:187)
- 23 Write A Note On Simple Cubic Arrangement Of Spheres (Pq.No:187)
- 24 Write A Note On Body Centred Cubic Arrangement (Pg.No:188)
- 25 How Do You Calculate Packing Efficiency Of BCC Arrangement? (Pg.No:188)

CHAPTER 6- SOLID STATE IMPORTANT QUESTIONS

- Write A Note On Hexagonal And Face Centred Cubic Arrangement (Pg.No:189) 26
- Briefly Explain The Formation Of 1st, 2nd, 3rd Layer Formation In HCC. (Pg.No:189-191)
- Distinguish Tetrahedral And Octahedral Voids. (Book Back Question) 28
- *How Do You Calculate The Packing Efficiency Of HCC? (Pg.No:192)* 29
- Write About Radius Ratio And Relate It With Structural Arrangement. (Pg.No:192) 30
- How Do You Classify The Crystal Defects? And Further Classify The One Of It.(Pg.No:193) 31
- Write A Note On Intrinsic Defect. (Pg.No:193) 32
- 33 Write A Note On Schottky Defect. (Pg.No:194)
- Write A Note On Frenkel Defect. (Pg.No:194)
- Write A Note On Metal Excess Defect. (Pg.No:194) 35
- Write A Note On Metal Deficiency Defect. (Pg.No:195)
- Write A Note On Impurity Defect. (Pg.No:195) 37
- What Is Piezoelectricity? (Pg.No:195) 38
- Write A Note On Energy Harvesting By Piezoelectric Crystals. (Pq.No:195-196).
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