



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

SET-4

Exercise

1. Relation between radius (r) and side length(a) of-face centred cubic lattice.

A. $a=2r$

B. $a = 2\sqrt{2}r$

C. $3\sqrt{3}r$

D. $4\sqrt{3}r$

Answer:



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2. For Galvanic cell which one is correct?

A. $E = E_R - E_L$

B. $E = E_L - E_R$

C. $E = E_R + E_L$

D. $E = E_{anode} - E_{cathode}$

Answer:



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3. Cause of peptization is.

A. Selective absorption

B. selective adsorption

C. non selective absorption

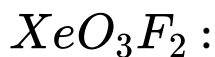
D. non selective

Answer:



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4. What is the oxidation state of Xe in



A. +8

B. +6

C. +4

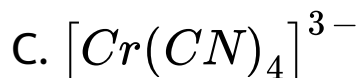
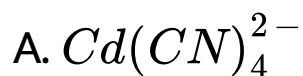
D. +2

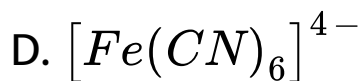
Answer:



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5. Which one is a perfect complex:





Answer:



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6. Which one is used in Gattermann reaction:

A. $CuCl/HCl$

B. $Cl_2//Fe$ dust

C. $HCl//Cu$ dust

D. $Cl_2 / sunlight$

Answer:



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7. Zeisel process is done to estimate:

- A. Structure of ether
- B. Position of OH in alcohol
- C. Quantity of alkoxy group in ether
- D. Phenolic-OH

Answer:



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8. Which one is not a nitrating agent.

A. Nitronium tetrafluoroborate

B. HNO_3 in nitromethanol

C. KNO_3 in ethanol

D. HNO_3 & H_2SO_4

Answer:



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9. Aniline when treated with phosgene produces.

- A. Phenyl cyanide
- B. Phenyl isocyanide
- C. Phenyl isocyanate
- D. Chloro-benzene

Answer:



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10. Only *Alpha*-amino acid which is optically inactive:

A. Glycine

B. Valine

C. Leucine

D. tryptophan

Answer:



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11. Cellulose is a bio polymer of:

A. *Alpha*-amino acid

B. α -D glucose

C. β -D Glucose

D. β – *L* glucose

Answer:



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12. Omeprazol is used to treat.

A. Fever

B. Cencer

C. Pain

D. hyperacidity

Answer:



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13. Heroin is:

A. Analgesic

B. Antacid

C. Antipyretic

D. Anti oxidant

Answer:



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14. Express standard hydrogen electrode.

What is transport number?



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15. What is transport number?



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16. What is lock and key theory?



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17. Which transition metal is highly dense?



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18. Which transition metal has highest melting point?



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19. What do you mean by narcotic?



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20. Calculate the freezing point of water when 50 gm urea is dissolved example.



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21. What is cataphoresis? Give example.



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22. Two solution having gold number 75 and 125 which one has more protective power and why?



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23. Between white & red phosphorus which one is more reactive & why?



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24. What are chelates? Give one example.



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25. What is crystal field stabilisation energy? If the energy of Bary centre be Δ_0 How much a

d^3 system stabilies?



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26. Define the process vulcanization.



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27. What is octahedral void? Show that for face entered cubic unit cell no of void is 4.



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28. What is p-type semiconductor? Define antiferromagnetic substance? Give example.



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29. An urea solution at $50^{\circ}C$ has osmotic pressure of 400 mm of Hg at what temperature the osmotic pressure will be 760 mm of Hg ?



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30. Show that relative lowering of vapour pressure is a colligative property.



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31. Shall copper sulphate solution be stored in Ag container? What is faraday?



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32. If the equivalent wt of one metal be 35. Then calculate the current flow-required to deposit 3.5gm in 10 minutes.



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33. What is matte? What is the utility of cryolyte in the extraction of Al?



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34. State the process in which sulphide ores (are) concentrated. What is pyrometallurgy?



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35. What transition metal shows catalytic nature. What acts as catalyst in the reduction of sulphate by iodide?

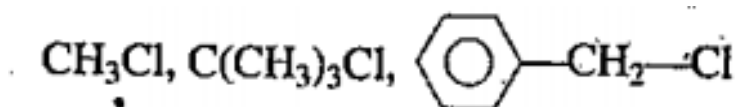


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36. Why the actinides has lower ionisation potential as compare to lanthanoid. What do you mean by transurenum element?

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37. What will form when an alkyl halide is treated with AgCN solution. Arrange the alkyl halide as per increasing SN^{2+} reactivity.

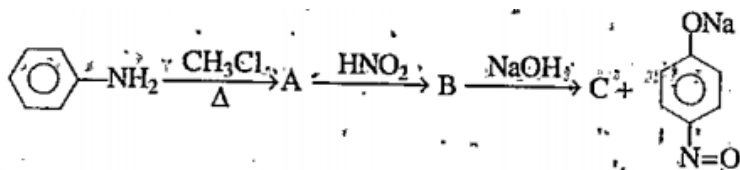


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38. Why phenol acts as an acid? What will happen if $FeCl_3$ solution is added to phenol?

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39. Find A, B, C



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40. What is anomer? What is isoelectric point of an amino acid give example.



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41. $N_2(g) + 3H_2(g) = 2NH_3(g)$ What is the rate of disappearance of N_2 and H_2 is the rate of formation be $0.56 \text{ mol L}^{-1} \text{ s}^{-1}$. Show that infinite time required for completion of 1st order reaction.



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42. State one fractional order reaction.



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43. What is molecularity of a chemical reaction.

If the specific reaction rate for a reaction be

4.24×10^{-5} and $6.32 \times 10^{-5} \text{ min}^{-1}$ at 30°C

and 43°C find energy of activation value for

that reaction.



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44. What will happen when: PCl_3 is heated with $LiAlH_4$ in ether.



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45. What will happen when: XeF_6 is hydrolysed.



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46. What is interhalogen compound? Give example why the covalent halides are less

reactive. What is *Wij* reagent?



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47. How would you synthesise: Malonic acid from acetic acid.



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48. How would you synthesise: Methanol from acetic acid. Give example of HVZ reaction.



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