CHEMISTRY

BOOKS - PATHFINDER CHEMISTRY (BENGALI ENGLISH)

SURFACE CHEMISTRY

Question Bank

1. What is peptization?

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2. Give one example each of negatively charged and positively charged sol.

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3. Which will be adsorbed more readily on the surface of charcoal ,NH_3or CO_2?

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4. How does a catalyst work in a chemical reaction?

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5. State an important use of electrodialysis in human being.

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6. What is collodion?

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7. What is zeta potential?

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8. The conductance of an emulsion increase on adding sodium chloride what type of emulsion is it?

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9. Why is gelatin added to ice cream?

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10. What is meant by kraft temperature (T_K) and critical micelle concentration (CMC)?

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11. Which of the following electrolyte is more effective for the coagulation of $Fe(OH)_3$ sol

and why ? Na_3PO_4, Na_2SO_4,NaCl?

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12. How cottrell smoke precipitator is used to purify smoke from colloidal particles?

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13. What are catalytic promoters and catalytic poisons?

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14. Answer the following

Why silica gel is used as dehumidifier?

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15. Answer the following

what is the significance of a gold number?

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16. What do you understand by

Emulsification

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17. What do you understand by

coagulation

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18. What are shape selective catalysts?

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19. Explain the modern adsorption theory of heterogeneous catalysis.

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20. How charge develops on colloidal particles explain?

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21. How do size of particles of adsorbent, pressure of gas and prevailing temperature influence the extent of adsorption of gas on a solid

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22. What happens in the following activities and why?

An electrolyte is added to a hydrated ferric oxide sol in water.

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23. What happens in the following activities and why?

A beam of light is passed through a colloidal solution

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24. What happens in the following activities and why?

an electric current is passed through a colloidal solution

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25. Explain the following a brief

sun looks red at the time of sunset

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26. Explain the following a brief

physisorption is multimolecular while

chemisorption is monomolecular

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27. Explain the following a brief

Lyophilic sol is more stable than lyophobic sol

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28. How can a colloidal solution and true solution of the same colour be distinguished from each other?

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29. List four application of adsorption.

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30. Explain the following terms

Dialysis

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31. Explain the following terms

ultrafiltration

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32. Explain the following terms

electrophoresis

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33. Explain the following terms

hardy schulze rule

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34. Explain the following terms

freundlich adsorption isotherm

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35. How are the following colloids different from each other in respect of dispersion medium and dispersed phase

aerosol

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36. How are the following colloids different from each other in respect of dispersion medium and dispersed phase

hydrosol

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37. How are the following colloids different from each other in respect of dispersion medium and dispersed phase

emulsion

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38. How are the following colloids different from each other in respect of dispersion

medium and dispersed phase

foam

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39. How are the following colloids different from each other in respect of dispersion medium and dispersed phase

gel

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40. Explain the theory of adsorption.

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41. Distinguish between physisorption and chemisorption

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