



CHEMISTRY

BOOKS - ACCURATE PUBLICATION

BOARD PAPER MARCH - 2019

Questions

1. What are analgesics ?



Watch Video Solution

2. Find Molarity if 0.0580 moles of a compound dissolve is 200 ml of its solution.



 [Watch Video Solution](#)

3. What are reducing sugars ?

 [Watch Video Solution](#)

4. Give one example of artificial sweetening agent.

 [Watch Video Solution](#)

5. Why do amines act as nucleophiles ?

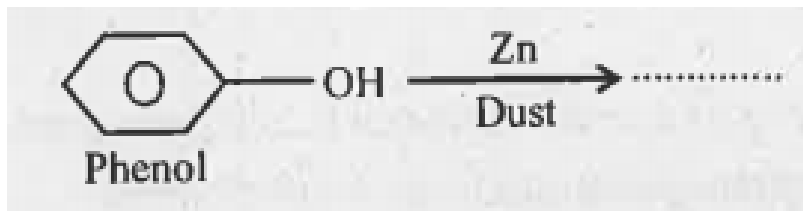
 [Watch Video Solution](#)

6. True/False- Leaves hold the plant upright.



 Watch Video Solution

7. Complete the following:

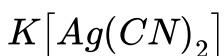


 Watch Video Solution

8. Find the half life period of first order reaction whose rate constant, $k = 4.93 \times 10^{-4} \text{ s}^{-1}$.

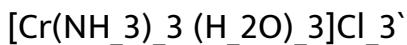
 Watch Video Solution

9. Write the IUPAC name of following :



 [Watch Video Solution](#)

10. Write the IUPAC name of following :



 [Watch Video Solution](#)

11. A compound X and Y crystallises in the cubic structure in which Y atoms are at the corners and X atoms are at the alternate faces of the cube. Find the formula of the compound.

 [Watch Video Solution](#)

12. Why Cu(I) is colourless and Cu(II) is blue in colour ?

 [Watch Video Solution](#)

13. The rate constant for a first order reaction is 90 s^{-1} . How much time will it take to reduce the concentration of the reactant to $\frac{1}{20^{\text{th}}}$ of its initial value?

 [Watch Video Solution](#)

14. Define ore and minerals.

 [Watch Video Solution](#)

15. Give monomers name and preparation of Nylon 6,6.

 [Watch Video Solution](#)

16. All three classes of aliphatic amines are stronger bases than ammonia. Explain.

 [Watch Video Solution](#)

17. Write chemical name, deficiency disease and one source of vitamin-C.

 [Watch Video Solution](#)

18. 18 g of glucose is dissolved in 1 kg of water. At what temperature will the solution boil ? (K_b for water is $0.52 \text{ K kg mol}^{-1}$)

 [Watch Video Solution](#)

19. State Henry's law and mention its some important applications.

 [Watch Video Solution](#)

20. Why bond angle of Phosphine (PH_3) is less than Ammonia (NH_3) ?

 [Watch Video Solution](#)

21. Why is H_2S less acidic than H_2Te ?

 [Watch Video Solution](#)

22. The molar conductivities at infinite dilution for sodium acetate, _hydrochloric acid and sodium chloride are 92.5, 426.9

and $120.4 \text{ Scm}^2\text{mol}^{-1}$ respectively at 298 K. Calculate the molar conductivity of acetic acid at infinite dilution.

 [Watch Video Solution](#)

23. What is corrosion?

 [Watch Video Solution](#)

24. Calculate the molar conductance of solutions of MgCl_2 at infinite dilution given that the molar ionic-conduction of $\lambda^\circ(\text{Mg}^{2+}) = 126.1 \text{ scm}^2\text{mol}^{-1}$ and $\lambda^\circ(\text{Cl}^-) = 56.3 \text{ scm}^2\text{mol}^{-1}$.

 [Watch Video Solution](#)

25. (i) Give two differences between emf and potential difference.

(ii) What is vulcanization of rubber ? Explain.

(iii) Write the names and structures of monomers of Buna-S

(iv) What is Blister copper ?

 [Watch Video Solution](#)

26. Explain Reimer Tiemann reaction with one example.

 [Watch Video Solution](#)

27. How will you convert chlorobenzene into phenol ?

 [Watch Video Solution](#)

28. Why Phenols are more acidic than Alcohol ?

 [Watch Video Solution](#)

29. Write two differences between physical adsorption and chemical adsorption.

 [Watch Video Solution](#)

30. Define Emulsion

 [Watch Video Solution](#)

31. Write Hell Volhard Zelinsky reaction.

 [Watch Video Solution](#)

32. Why are the boiling points of carboxylic acids higher than the corresponding alcohols ?

 [Watch Video Solution](#)

33. Explain why aldehydes are more reactive than ketones towards nucleophilic addition reactions ?

 [Watch Video Solution](#)

34. A face centered cubic element (atomic mass =60) has edge length of 400pm. What is the density of unit cell

 [Watch Video Solution](#)

35. Give one difference between crystalline and amorphous solids.

 [Watch Video Solution](#)

36. An element having a density 11.2g cm^{-3} forms a fcc lattice with edge of 4×10^{-3} cm. Calculate the atomic mass of the element.

 [Watch Video Solution](#)

37. Define unit cell and paramagnetic substance.

 [Watch Video Solution](#)

38. Write the following reaction:

Wurtz Fittig Reaction

 [Watch Video Solution](#)

39. True/False- Stems absorb water and minerals from the soil.

 [Watch Video Solution](#)

40. True/False- The plant gets nitrogen from air.

 [Watch Video Solution](#)

41. Why solubility of Haloalkanes in water is very low ?

 [Watch Video Solution](#)

42. Give one use of freon.

 [Watch Video Solution](#)

43. Why nitrogen is important for the plants?

 [Watch Video Solution](#)

44. Give the mechanism of substitution nucleophilic bimolecular, S_N^2 reactions.

 [Watch Video Solution](#)

45. Define Optical activity.



 [Watch Video Solution](#)

46. Why SF_6 is known but SH_6 is not known ?

 [Watch Video Solution](#)

47. From HF and HI which is more acidic and why ?

 [Watch Video Solution](#)

48. Give preparation of XeF_6 and $XeOF_2$.

 [Watch Video Solution](#)

49. True/False- The ovary is found in the stamen.

 [Watch Video Solution](#)

50. How many unpaired electrons are present in Fe^{+3} and Zn^{+2} .

 [Watch Video Solution](#)

51. Why is $La(OH)_3$ more basic than $Lu(OH)_3$?

 [Watch Video Solution](#)

52. Give preparation of Potassium Permanganate ($KMnO_4$).

 [Watch Video Solution](#)

53. What is Lanthanide contraction ? What is the cause and consequences of Lanthanide contraction ?



Watch Video Solution

54. Why transition metals show catalytic properties?



Watch Video Solution