



CHEMISTRY

BOOKS - OMEGA PUBLICATION

SAMPLE QUESTION PAPER -II (PUNJAB)

Question

1. Calculate the actual weight of : a molecule of



A. 2.8×10^{-23} g

B. 1.4×10^{23} g

C. 5.6×10^{23} g

D. 7×10^{-23} g

Answer:



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2. What is periodicity? What is the cause of periodicity?



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3. Define critical temperature.

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4. The value of R is _____ $JK^{-1}mol^{-1}$.

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5. What is the structure of H_2O_2 ?



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6. Alkali metals are soft. Why ?

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7. Draw the structure of in-organic benzene.

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8. What is the principle of chromatographic separation ? Name the different types of

chromatography commonly used.



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9. What is the difference between covalent radius and vanderwall's radius?



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10. Explain why carbon differs from rest of the family members.



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11. Define solubility product. How does it differ from ionic product ?



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12. What is the difference between e.m.f. and potential difference?



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13. Give general electronic configuration of p and d-block elements.



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14. Define green chemistry.



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15. Give resonating structures of CO and CO_2 .



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16. What is fog ?



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17. Give one reaction to show that H_2O_2 is an acid.



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18. Give one reaction to show that H_2O_2 is oxidising agent.



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19. Give-one reaction in each case to show that H_2O_2 is an reducing agent



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20. Calculate volume occupied by two moles of gas at $27^{\circ}C$ and under a pressure of 1 atmosphere.



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21. Define absolute zero.



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22. Distinguish between inductive and electromeric effect.



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23. Explain Enthalpy of fusion.



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24. Explain Enthalpy of combustion.



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25. Explain Enthalpy of neutralisation.



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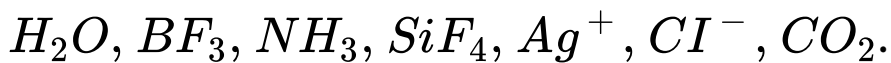
26. How ionic product of water change with temperature ?



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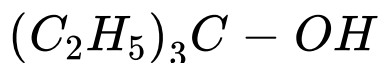
27. Classify the following into Lewis acids or

Lewis bases giving reasons :



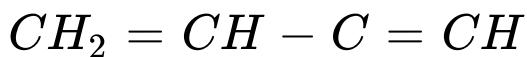
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28. Give the IUPAC name of the following



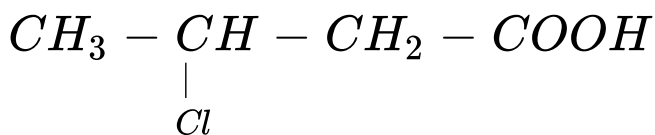
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29. Give the IUPAC name of the following



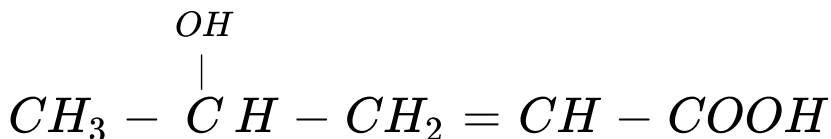
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30. Give the IUPAC name of the following



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31. Give the IUPAC name of the following



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32. Group 2 elements are denser and harder than group 1 elements. Why ?



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33. How is caustic soda manufactured ?



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34. Give the molecular orbital diagram for F_2 molecule.



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35. Distinguish between atomic and molecular orbital.



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36. What is hybridisation. On the basis of hybridisation explain the geometry of PF_5 and SF_6 .



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37. What is the difference between orbit and orbital.



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38. What is H-spectrum ?



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39. Give and justify the electronic configuration of copper and chromium.



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40. What is the wavelength of light emitted when the electron in a hydrogen atom

undergoes transition from an energy level with $n = 4$ to an energy level with $n = 2$?



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41. Give the mechanism of sulphonation of benzene.



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42. Why alkenes are more reactive than alkanes?



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43. Write a short notes on following:

Markownikov's rule



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44. Write a short notes on following:

Wurtz reaction



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45. Write a short notes on following:

Ozonolysis of alkenes



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