CHEMISTRY

BOOKS - OMEGA PUBLICATION

SAMPLE QUESTION PAPER -IV

(PUNJAB)

Question

1. Mass of 1 molecule .of NH_3 is_____.

A. 5.6×10^{-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 the following terms:

Critical pressure

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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_20_2 ?

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6. What is the general electronic configuration" of carbon family?

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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 diffrence between covalent. raclius 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 diffrence?

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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 in each case to show that

H_2O_2 is

an reducing agent

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18. Give-one reaction in each case to show that

H_2O_2 is

an reducing 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 the following

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 : $H_2O, BF_3, NH_3, SiF_4, Ag^+, CI^-, CO_2.$

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28. Give the IUPAC name of the following

$(C_2H_5)_3C - OH$

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29. Give the IUPAC name of the following

$$CH_2 = CH - C = CH$$

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30. Give the IUPAC name of the following

$$CH_3 - \underset{\underset{Cl}{|}}{CH} - CH_2 - COOH$$

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31. Give the IUPAC name of the following

$$CH_3 - \overset{OH}{\overset{|}{C}}H - CH_2 = CH - COOH$$

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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 of O_2 molecule and calculate its bond order.

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35. What is the difference between atomic and molecular orbital

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36. What is hybridisation on the basis of hybridisation explain the geometry of PF_5 .

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37. What is the difference between orbit and orbital.

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38. What.is'H - spectrum? How it can be explained by Bohr's Theory.

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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 trnsition from an energy level with n = 4 to an energy level with n = 2 ?

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41. Give the mechanism of sulpho'nation and nitration 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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