



CHEMISTRY

BOOKS - OMEGA PUBLICATION

SAMPLE QUESTION PAPER -IV (PUNJAB)



1. Mass of 1 molecule .of NH_3 is_____

A.
$$5.6 imes10^{-23}$$
 g

 $\mathsf{B}.\,1.4\times10^{-23}\,\mathsf{g}$

C.
$$5.6 imes10^{-23}$$
 g

D. $7 imes 10^{23}$ g

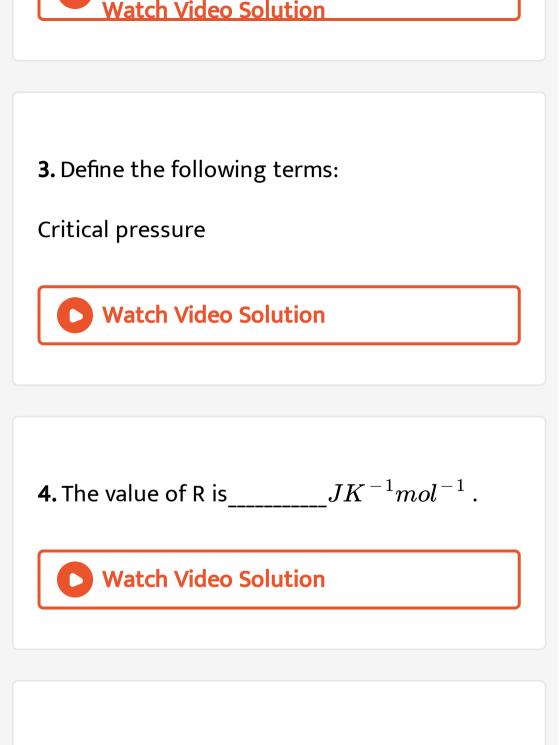
Answer:

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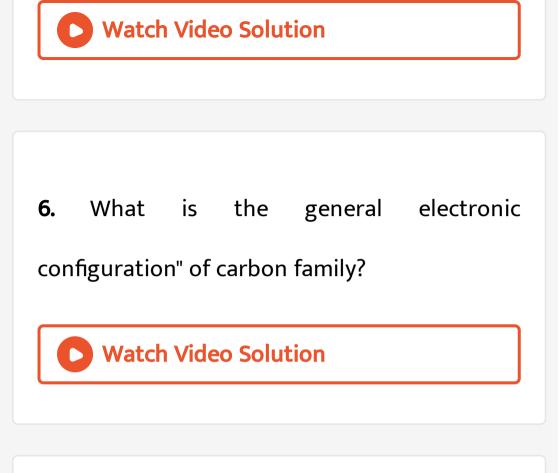
2. What is periodicity? What is the cause of

periodicity?





5. What is the structure of $H_2 0_2$?



7. Draw the structure of in-organic benzene.

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



9. What is the diffrence between covalent.

raclius and vanderwall's radius?



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 ?

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

potential diffrence?

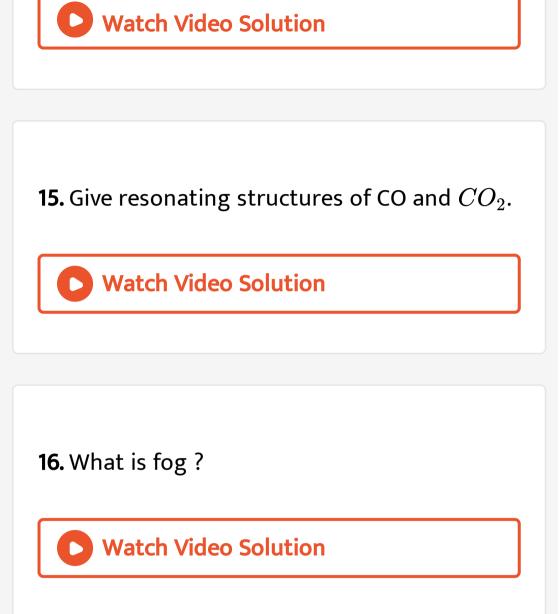
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13. Give general electronic configuration of p

and d-block elements.



14. Define green chemistry.



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

 H_2O_2 is

an reducing agent



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

 H_2O_2 is

an reducing agent

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

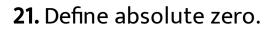
 H_2O_2 is

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.





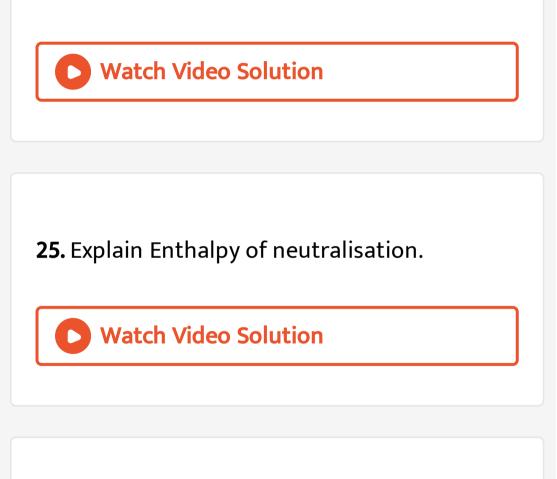
22. Distinguish between inductive and

electromeric effect.

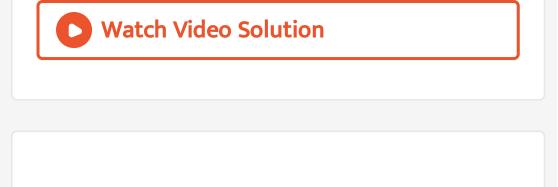
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23. Explain the following

Enthalpy of fusion



26. How ionic product of water change with temperature ?



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

 $(C_2H_5)_3C - OH$



29. Give the IUPAC name of the following

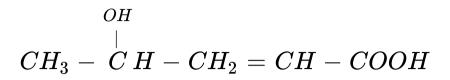
 $CH_2 = CH - C = CH$

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30. Give the IUPAC name of the following

$CH_3 - CH - CH_2 - COOH \ ert_{Cl}$

31. Give the IUPAC name of the following



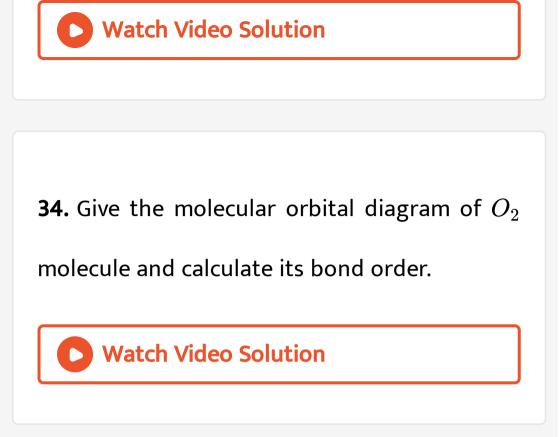
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32. Group 2 elements are denser and harder

than group 1 elements. Why?

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33. How is caustic soda manufactured ?



35. What is the difference between atomic and

molecular orbital

36. What is hybridisation on the basis of

hybridisation explain the geometry of PF_5 .



37. What is the difference between orbit and orbital.



38. What.is'H - spectrum? How it can be

explained by Bohr's Theory.

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configuration of copper and chromium.



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.



42. Why alkenes are more reactive than

alkanes?



43. Write a short notes on following:

Markownikov's rule

44. Write a short notes on following:

Wurtz reaction

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45. Write a short notes on following:

Ozonolysis of alkenes

