



# CHEMISTRY

## BOOKS - JNAN PUBLICATION

### PHYSICAL AND CHEMICAL PROPERTIES OF MATTER POTASSIUM CHLORATE, BARIUM PER OXIDE MAGNESIUM

**Example**

1. What is the value of atomic weight of barium.



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2. What are the number of elements under the very short period?



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3. What are the number of elements under the first short period?



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4. What are the number of elements under the second short period?



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5. What are the number of elements under first long period?



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6. What are the number of elements under second long period?



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7. What are the number of elements under first very long period?



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8. What are the number of elements under very long incomplete period?



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9. Write the order of oxidising power of na,mg, si,p,s,al elements.



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10. Write the order of reducing power of mg,si,p,s,na,al, elements.



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**11.** Write the electronic configuration of sodium atom.



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**12.** Write the electronic configuration of chlorine atom.



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**13.** Write the electronic configuration of calcium.



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**14.** Write the electronic configuration of magnesium.



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**15.** Write one example of polar solvent.





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**16.** Write one example of strong electrolytes.



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**17.** Write one example of weak electrolytes.



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**18.** Write the formula of Haematite.



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19. Write the formula of copper pyrites



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20. Write the formula of Zinc blende.



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21. Write the formula of Bauxite



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22. Write the chemical formula of ferrous ferric oxide.



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23. Write the formula of function group hydroxy.



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**24.** Write the formula of functional group of aldehyde.



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**25.** Write the chemical formula of Ketone group.



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**26.** Write the formula of carboxylic acid group.





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27. Write the formula of amine group



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28. Write the formula of ether group



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**29.** Write the formula structure of hydroxyl group



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**30.** Write the formula structure of Ketone group



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**31.** What are the important features of long form of the periodic table?



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**32.** Write two drawbacks of the modern periodic table.



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**33.** Short Note- Atomic radii



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**34.** What is covalent radius?



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**35.** What is vanderwaaPs radius?



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**36.** What do you mean by Metallic radius?





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**37.** State - Dobereiners law of triads.



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**38.** What is period?



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**39.** What is meant by groups?



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**40.** What is the nature of group 1 (1A) elements in the periodic table?



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**41.** What are the properties of group 2(11A) elements of periodic table?



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**42.** Define transitional elements.



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**43.** Write four names of transuranic elements.



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**44.** What do you know about the reactivity of 'group 18' elements of periodic table?



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**45.** Write the properties of ionic compounds?



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**46.** Write two line of Kossel's proposal for ionic bonding.



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**47.** What is the limitation of octet rule?





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**48.** What do you mean by electro valent bond?



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**49.** What is electrovalency?



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**50.** What is meant by electrons?





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51. What do you mean by exothermic and endothermic process?



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52. Why do ionic compounds exist as solids?



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**53.** What is meant by covalency of an atom?



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**54.** Define: covalent bond



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**55.** Define :

Polar covalent



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**56. Define :**

Non -polar covalent bond



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**57. State - Newland's law of octaves:**



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**58. State-Periodic law**





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59. What is ionisation energy?



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60. Define - Periodic properties



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61. What is the electron affinity?



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**62.** State-Law of duplet.



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**63.** State-Law of octet.



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**64.** What is cation?



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**65.** What is anion?



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**66.** Define-oxidation. Write its example.



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**67.** Define-Reduction Write its example.



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**68.** What are classification of electrical conductor?



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**69.** Write two electrolytic conductors



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70. What is meant by - electrolysis?



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71. Write two application of eelctrolysis?



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72. What is anode-mud?



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73. Define-liquor ammonia



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74. Write two uses of ammonia as coolant. The two uses of ammonia as coolant are--



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75. Define-nitrolim.



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**76.** What is cast iron?



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**77.** What is steel?



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**78.** What is meant by wrought iron?



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**79.** Write two uses of stainless steel.



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**80.** Write two uses of bell metal.



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**81.** Write two uses of brass.



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**82.** Write two used of germar silver



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**83.** Write two uses of duralumin.



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**84.** State-electronoic theory of redox process.



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**85.** Define-Themite reaction.



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**86.** Write an use of liquite ammonia as a coolant.



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**87.** Write an use of ammonia.



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**88.** Write one use of urea?



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**89.** Define-galvanisation.



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**90.** What is meant by Catenation?



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**91. Define-**

Saturated compound



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**92. Define-**

Unsaturated compound



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**93.** Write two example of saturated organic compounds.



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**94.** Write two examples of unsaturated organic compounds.



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**95.** What is the functional group?





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**96.** Define isomerism, structural isomerism



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**97.** What is meant by rust?



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**98.** Define-homologouse series





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**99.** Draw the diagram of covalent radius of hydrogen.



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**100.** Draw the diagram of showing comparison of Vanderwaals radius and covalent radius?



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