

# CHEMISTRY

## BOOKS - MAXIMUM PUBLICATION

### MODEL PAPER1

#### Example

1. The element with  $1s^2 2s^2 2p^6 3s^2 3p^6$  is placed in the group \_\_\_\_\_ of the periodic table.

A. 1

B. 6

C. 8

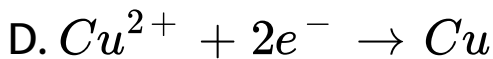
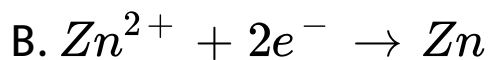
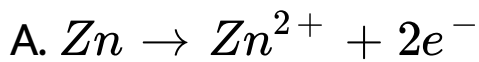
D. 18

**Answer: D**



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2. The reaction taking place at the anode of a zinc copper galvanic cell \_\_\_\_\_



**Answer: B**



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**3.** The metal that liberate hydrogen gas when react with steam is \_\_\_\_\_

A. Magnesium

B. Zinc

C. Iron

D. Sodium

**Answer: C**



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4. The substance used to remove moisture from ammonia is \_\_\_\_\_

A. Vanadium pentoxide

B. Sulphuric acid

C. Calcium oxide

D. Silicon dioxide

**Answer: C**



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5. The functional group present in the  
Compound  $CH_3 - O - CH_3$  is \_\_\_\_\_

A. Hydroxy

B. Alkoxy

C. Methyl

D. Carboxylic

**Answer: B**



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**6.** Calculate the number of molecules in 90g of water.

(Hint -Atomic mass H=1, O=16)



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7. The molecular mass of  $CO_2$ , is 44.

Find out the number of molecules in 220g  $CO_2$ .



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8. Certain elements are arranged in the order as they appear in the electrochemical series.

Answer the question that follows based on

this  $Na > Mg > Al > Zn > Cu > Ag$

Which of these element is likely to be found in free state in nature?



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9. Certain elements are arranged in the order as they appear in the electrochemical series.

Answer the question that follows based on

this  $Na > Mg > Al > Zn > Cu > Ag$

Which of these metal will produce the stablest compound?





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10. Certain elements are arranged in the order as they appear in the electrochemical series.

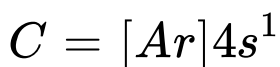
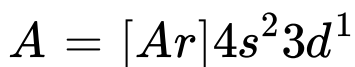
Answer the question that follows based on this  $Na > Mg > Al > Zn > Cu > Ag$

Which of these metal is produced by reducing its ore with CO?



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11. The subshell electron configuration of certain elements are given below. (Symbols are not real)

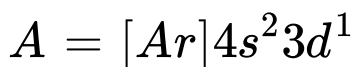


Write any characteristic of the element A.



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12. The subshell electron configuration of certain elements are given below. (Symbols are not real)

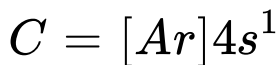
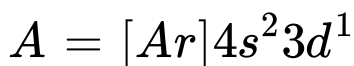


Which among these belong to the same group?



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**13.** The subshell electron configuration of certain elements are given below. (Symbols are not real)

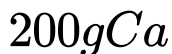
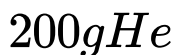
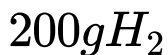


Which among these belong to the same period?



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**14.** Certain samples are given below.

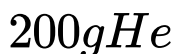
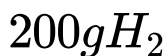


Find out the number of moles in each sample.



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**15.** Certain samples are given below.



$200gCa$

Arrange them in the increasing order of number of molecules.

(Hint Atomic mass of H = 1, He = 4, Ca = 40)



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**16.** Which substances are used as the anode, cathode and electrolyte when copper is refined by electrolysis.



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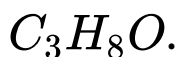
17. It is said that electrolytic refining of copper is economic. Why?



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18. There are compounds with same molecular formula but different structural formula.

Write two compounds with different structural formula and the molecular formula



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**19.** There are compounds with same molecular formula but different structural formula.

By what name these compounds are known?

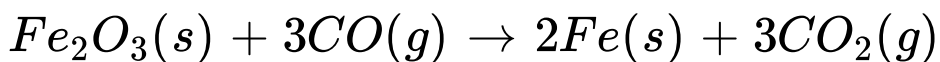
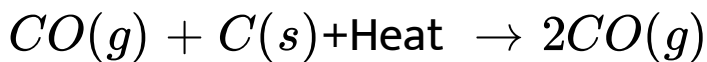
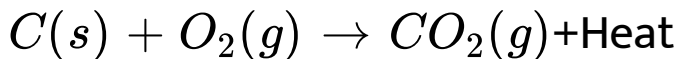
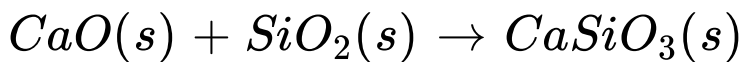


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**20.** The chemical reactions taking place inside blast furnace during the manufacture of iron is given below. Analyse it and answer the questions given below.





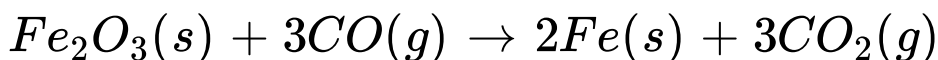
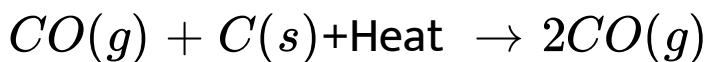
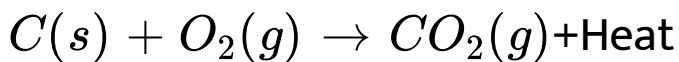
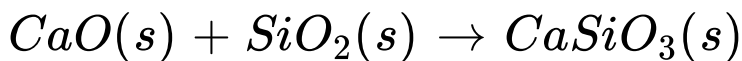


Write the chemical formula of the ore of iron.



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**21.** The chemical reactions taking place inside blast furnace during the manufacture of iron is given below. Analyse it and answer the questions given below.



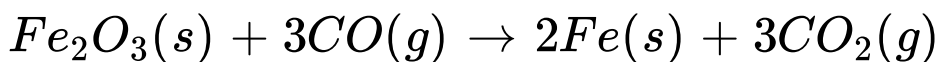
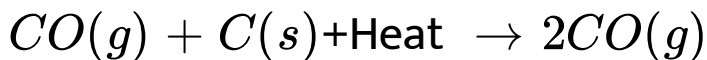
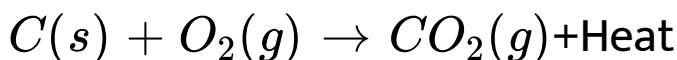
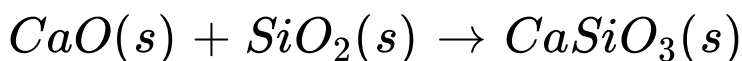
Which compound is the actual reducing agent in the reaction?



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**22.** The chemical reactions taking place inside blast furnace during the manufacture of iron

is given below. Analyse it and answer the questions given below.



Which equation shows slag formation?



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**23.** Sulphuric acid is known as 'the king of chemicals'.

What is the basis for this?



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**24.** How concentrated sulphuric acid is diluted in the laboratory?



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**25.** The wooden cupboards in which concentrated sulphuric acid is often seen charred. Why?



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**26.** How do galvanic cells and electrolytic cells differ each other?



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27. Write any two practical uses of electrolysis.



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