



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

BETHUNE COLLEGIATE SCHOOL QUESTION PAPER

Exercise

1. Number of p electrons in bromine atom are:

- A. 12
- B. 15
- C. 7
- D. 17

Answer:



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2. Which of the following having maximum electron affinity?

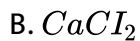


Answer:



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3. For which compound both covalent and ionic bonds are present?



D. H_2O

Answer:



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4. When the hydride of basic metal, reacts with water, it gives .

A. acid solution

B. basic solution

C. neutral solution

D. hybride ion

Answer:



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5. The strong base is:

A. LiOH

B. NaOH

C. KOH

D. CsOH

Answer:

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6. How many- helium atoms are present in 52u of Helium?

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7. Arrange the following in order of increasing dipole,moment

NH_3 , NF_3 , CBr_4 .

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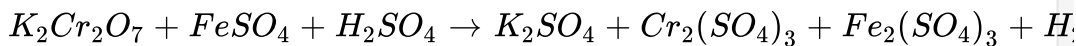
8. Determine the oxidation of Fe in $K_4[Fe(CN)_6]$.

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9. Write down the formula of hydrolith.

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10. Balance the equation in ion electronic method,



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11. Draw the structure of H_2O_2 molecule.

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12. Describe the nature of the curve of 'log P vs log V'.



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13. Since oxygen and sulphur are belong in same group, but H_2O is liquid but H_2S is gas, describe.



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14. Between Berilium and Boron which have higher ionisation enthalpy?



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15. In 0.09 gm of H_2O , how many hydrogen and oxygen atoms are present?



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16. State Hund's multiplicity Rule and explain it. Give electronic configuration of sulphide ion.

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17. Electron affinity of fluorine is greater than chlorine, but electron affinity is higher in chlorine than fluorine— explain. Why 2nd ionisation potential is always greater than 1st ionisation potential?

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18. Bond angle of H_2O is greater than H_2S — Explain. Explain, ammonia is more basic than phosphine.

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19. How will you prepare watergas from coke, give equation. Write two names of the compound which cause permanent hardness of water.

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20. From a mixture of acetylene, ethylene, methane gas, how will you separate these three gas mixture?

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21. Why methane does not prepared from 'Wurtz Reaction'? Convert :
 $CH_3 - CH_3 \rightarrow CH_2 = CH_2$.

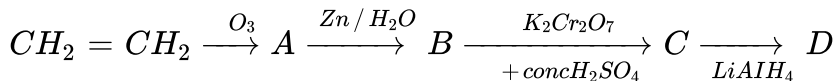
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22. Why methane does not prepared from 'Wurtz Reaction'? Convert :
 $CH_3 - CH_2 - OH \rightarrow CH_2 = CH_2$.

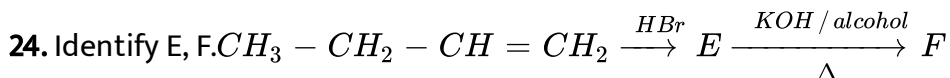


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23. Identify A, B, C, D.



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25. Why nitrobenzene is used as a solvent in Friedel Craft Reaction?

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26. Determine the volume strength of the 1.5 (N) H_2O_2 solution.

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27. Hardness, which is related' with Mg-ions, does not completely removed by only boiling— explain.

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28. Why sugar is soluble in water?

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