

CHEMISTRY

BOOKS - UNITED BOOK HOUSE

HINDU SCHOOL QUESTION PAPER

Exercise

1. Calculate the equivalent wt. of $Kmno_4$ in Acid medium. [K = 39 Mn = 55]



Watch Video Solution

2. The percentages of oxygen in two oxides of a metal are 22.2 and 30 respectively. The formula of the second oxide is M_2O_3 . Deduce the formula of first.



[Watch Video Solution](#)

3. Calculate the ratio of the molecules of two gaseous substances having same volume and same mass each.



Watch Video Solution

4. An electron is present in 4 f orbital. Write its possible quantum Nos. (n, l, m, s).



Watch Video Solution

5. The wave number of a spectrum in Lyman series in hydrogen atom is 82260cm^{-1} . Show that this spectrum is created by shifting the electron from second to first orbit.

$$[R = 109670\text{cm}^{-1}]$$



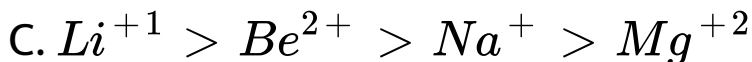
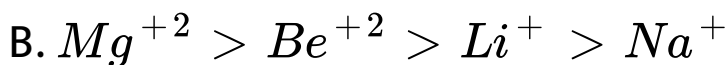
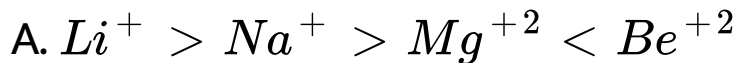
Watch Video Solution

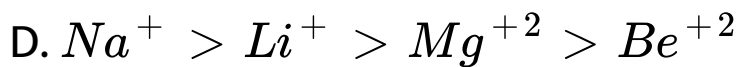
6. The Lanthanides contraction is due to



Watch Video Solution

7. The actual order of Ionic radius is



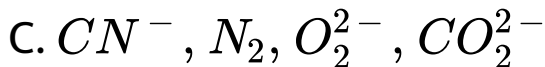
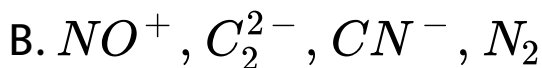
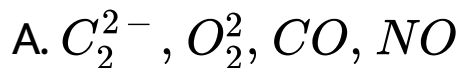


Answer:



Watch Video Solution

8. Which of the followings expresses same No. of electrons?



D. N_2 , O_2^{2-} , NO^+ , CO

Answer:



Watch Video Solution

9. “ CI_4 does not have any hydrolysis lent

$SiCl_4$ suffers hydrolysis— Why?



Watch Video Solution

10. Write Hund's rule regarding atomic structure. Cite one example.



Watch Video Solution

11. What is dipole moment?



Watch Video Solution

12. "Nitrogen can create NCI_3 but phosphorous can create both PCI_3 and PCl_5

" — why?



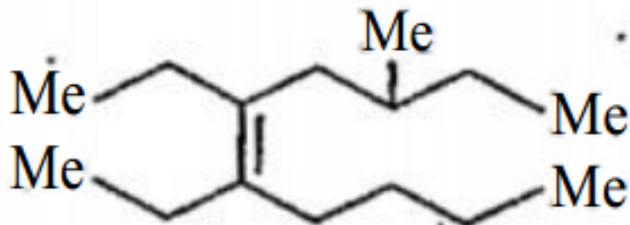
Watch Video Solution

13. Write only the five postulates of the VSEPR theory.



Watch Video Solution

14. Write the names of the following two organic compound in I.U.P.A.C. system



Watch Video Solution

15. Write the names of the following two organic compound in I.U.P.A.C. system



Watch Video Solution

16. Give figure of molecular orbital energy diagram of N_2 molecule.



Watch Video Solution