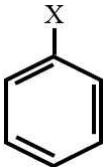
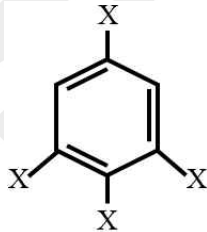


# GOLDEN SAMPLE QUESTIONS

## CHEMISTRY For JEE Main 2019 (Set 1)

1. In haber process, 30L of dihydrogen and 30L of dinitrogen were taken for reaction which yielded only 50% of the expected product. What will be the composition of the gaseous mixture under the aforesaid conditions in the end.
- (a) 20L  $\text{NH}_3$ , 25L  $\text{N}_2$  and 20L  $\text{H}_2$   
(b) 10L  $\text{NH}_3$ , 25L  $\text{N}_2$  and 15L  $\text{H}_2$   
(c) 20L  $\text{NH}_3$ , 10L  $\text{N}_2$  and 30L  $\text{H}_2$   
(d) 20L  $\text{NH}_3$ , 25L  $\text{N}_2$  and 15L  $\text{H}_2$
2. What is the distance of closest approach to the nucleus of an  $\alpha$ -particle which undergo scattering by  $180^\circ$  in Geiger-Marsden experiment.
- (a) 4.13 fm  
(b) 5.89 fm  
(c) 2.68 fm  
(d) none

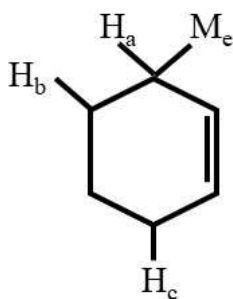
3. Dipole moment of  is 1.5D. The dipole moment of  is (x = halogens)
- (a) 1.5D  
(b) 2.25D  
(c) 1D  
(d) 3D



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4. The order of decreasing ease of abstraction of hydrogen atoms in the following molecule is



- (a)  $H_a > H_b > H_c$   
 (b)  $H_a > H_c > H_b$   
 (c)  $H_b > H_a > H_c$   
 (d)  $H_c > H_b > H_a$
5. The number of isomers possible for octahedral complex  $[\text{Co}(\text{en})(\text{NH}_3)_2\text{Cl}_2]^+$  is
- (a) two  
 (b) three  
 (c) no isomers  
 (d) four



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