

**Acids and Bases**

161. Would gaseous  $HCl$  be considered as an Arrhenius acid  
(a) Yes  
(b) No  
(c) Not known  
(d) Gaseous  $HCl$  does not exist
162. Which one of the following is called amphoteric solvent  
(a) Ammonium hydroxide  
(b) Chloroform  
(c) Benzene  
(d) Water
163. Strongest conjugate base is  
(a)  $Cl^-$  (b)  $Br^-$   
(c)  $F^-$  (d)  $I^-$
164. The conjugate base of  $H_2PO_4^-$  is  
(a)  $H_3PO_4$  (b)  $P_2O_5$   
(c)  $PO_4^{3-}$  (d)  $HPO_4^{2-}$
165. Conjugate base of  $HSO_4^-$  is  
(a)  $SO_4^{2-}$   
(b)  $H_2SO_4$   
(c)  $H_3SO_4^+$   
(d) None of these

