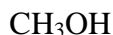


- 1) Classify the following as acid, base, amphoteric or neutral:



- 2) Circle the acidic proton in the following compounds:



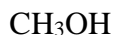
- 3) What is the conjugate acid of: NH
- ₂
- ⁻
- , CH
- ₃
- OH?

- 4) What is the conjugate base of: NH
- ₃
- , CH
- ₃
- OH, H
- ₂
- SO
- ₄
- ?

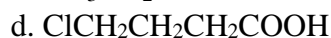
- 5) Write the products of the following acid base equation. Label all chemicals as acid, base, conjugate acid or base also. Draw arrows if you can to show the movement of electrons.



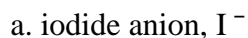
- 6) Label the strongest and the weakest acid from below?



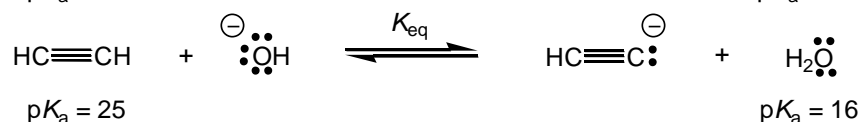
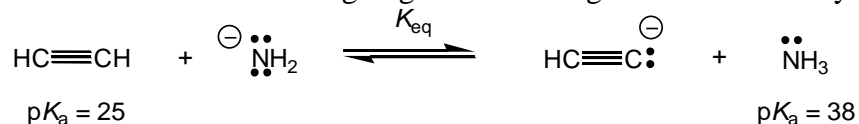
- 7) Which of the following compounds is the strongest acid?



- 8) Which of the following is the strongest base?



- 9) The equilibrium of one of the two reactions given below will be going forward while one is backward. Predict which is going forward and give the reason for your answer.



- 10) Identify the Lewis acids and Lewis bases from the following compounds:

