

**NPTEL Inorganic chemistry of life – *Principles and perspectives*, July 2018**

**Week 1 - Assignment 1**

**W1\_01.** What do you think that the “Biological Inorganic Chemistry” will deal with?

**W1\_02.** How do you describe the metal ion centre present in a metalloenzyme & Why?

**W1\_03.** Why do you think that about 15 to 20 elements together forming 0.1% weight percent of the total body composition would be important? The reasons please!

**W1\_04.** Given the example that  $\text{Fe}^{3+}$  taken in water in test tube *vs.* the  $\text{Fe}^{3+}$  taken in a protein medium: How do you compare these two to give biological inorganic chemistry perspectives?

**W1\_05.** What are the aminoacids capable of binding to metal ions in metalloenzymes, how and why?

**W1\_06.** List 10 different functions that the metalloenzymes generally show?