

# SREE CHAITANYA MAHAVIDYALAYA

(Affiliated by WEST BENGAL STATE UNIVERSITY)

**B.Sc. Sem-V, Theory Examination, 2021-22**

**Chemistry (SEC)**

**CEMSSEC01M: Basic Analytical Chemistry**

Answer-scripts to be sent within 01 hour after exam at

[scm.chem.exam@gmail.com](mailto:scm.chem.exam@gmail.com)

**Time: 1 Hour**

**Full Marks: 20**

**A. Answer the following short questions: (any five) (1X 5 = 5)**

1. How many significant figures are present in 0.0065?
2. What is the full form of COD?
3. Write down two essential macronutrients for plants.
4. Which method is used to remove Permanent Hardness?
5. Give an example of natural food Preservative.
6. Draw the structure of EBT indicator.

**B. Answer the following questions:**

**(5X 3 = 15)**

1. a) Why we used EDTA in complexometric titration?  
b) What is called Humus? **(3+2)**
  
2. a) The following data were obtained from the determination of percentage of zinc in the given sample. Calculate the standard deviation.  
Percentage of Zn = 18.20, 18.15, 18.26, 18.23, 18.25  
b) What are the various sources of water pollution? **(3+2)**
  
3. a) What are the adulterants found in Chilli powder? Give the method of detection.  
b) Define Dietary Fibre. **(3+2)**