

Roll No. \_\_\_\_\_

[Total No. of Pages : 2]

**SVS-N-314 A-21**  
**B.Sc. V Semester (CBCS) Degree Examination**  
**CHEMISTRY**  
**Basic Analytical Chemistry**  
**Paper : SEC - CHEM - 1**  
**(New)**

**Time : 2 Hours**

**Maximum Marks : 40**

**Instructions to Candidates:**

Answer All the three sections.

**SECTION-A**

**I** Answer the following questions..

(9×1=9)

1. Expand EDTA.
2. What is precision?
3. Give the composition of soil.
4. Define pure water.
5. What do you mean by food adulteration?
6. Give an example of chelating agent.
7. Which adulterants mixed in coriander powder?
8. What is mobile phase?
9. What is cation exchange resin?

**SECTION - B**

**II** Answer any Three of the following.

(3×5=15)

10. Discuss the presentation of experimental data and results in terms of significant figures.
11. How do you determine alkalinity of water sample?
12. Explain sources responsible for contaminating water.
13. Discuss about column Ion exchange chromatography.

**SVS-N-314 A-21/2021**

(1)

[Contd....]

### SECTION - C

III. Answer any Two of the following.

(2×8=16)

14. a) Explain sources of errors in analytical chemistry. (4)  
b) How do you determine the PH of soil sample? (4)
  15. a) Discuss the determination of dissolved oxygen of water sample. (4)  
b) Write a note on food preservation and adulteration. (4)
  16. a) Define chromatography. Explain general principles of paper chromatography. (4)  
b) Write the concept of PH and its Importance. (4)
-