

**K.T.S.P. Mandal's
Hutatma Rajguru Mahavidyalaya, Rajgurunagar**

Internal Examination

AY 2022-23

Class: T. Y. B. Sc. SEM.: 6th

Subject: Chemistry

Name of Paper: Chemistry of Soils and Agrochemicals Paper No.: CH-610A

Q.1 Answer the following

- i. Define Soil Solution.
- ii. Explain importance of agricultural chemistry.
- iii. Give important of buffer action in soil.
- iv. What do you mean by plasmolysis?

Q.2 Answer the following

- A. What is acid soil? Explain its formation and reclamation along with effect on plant growth.
- B. Give an account of physical properties of soil.
- C. Define particle density and bulk density. Give their importance in agriculture.
- D. Discuss the importance of soil reaction.

Q.3. A. Answer the Following

- a. Explain Lime requirement.
 - b. Explain the need of soil testing.
 - c. How alkali soils are reclaimed.
- B. Explain the brief collection of soil sample from the field.

Q.4 Answer the following

- I. State pH of saline, non-saline, neutral and calcareous soil.
- II. Give importance of soil structure.
- III. Give Chemical and Physical functions of Soils.