



20100442

QP CODE: 20100442

Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, MARCH 2020

Sixth Semester

Choice Based Core Course - CH6CBT03 - SOIL AND AGRICULTURAL CHEMISTRY

B.Sc Chemistry Model I, B.Sc Chemistry Model III Petrochemicals, B.Sc Chemistry Model II

Industrial Chemistry,

2017 Admission Onwards

B96AF030

Time: 3 Hours

Marks: 80

Part A

Answer any ten questions.

Each question carries 2 marks.

1. Name some industrially important minerals present in soil.
2. What is weathering?
3. What is soil mapping?
4. What is porosity of soil?
5. Define the terms : (a) Plastic index (b) Plasticity limit.
6. Write any four problems arises due to the use of poor quality water for irrigation.
7. Write any four factors that affects the organic matter of soil.
8. Write any two important roles of potassium in plant growth.
9. What do you mean by deficiency of nutrient? Give two deficiency symptoms of calcium.
10. Write any two methods for determining nutrient needs.
11. What are liquid fertilizers ? Give examples.
12. What is Agent Blue? What is its the importance?

(10×2=20)





Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Write a note on rock systems in soil formation.
14. Explain the role of soil temperature and soil air in plant growth.
15. How the pH value of soil controls the concentration and availability of minerals in soil?
16. Write a note on 'Soil microbes in pests and disease management'.
17. Describe the corrective measures that we took for the treatment of nutritional deficiency symptoms found in plants.
18. Explain mixed fertilizers.
19. Explain the principle of fertilizer's use.
20. Describe the impact of pesticides on environment.
21. Describe about sulphur fungicides.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Write a note on 'Problem soil-causes and reclamation methods' .
23. Explain the following (a) NPK fertilizers (b) straight fertilizers (c) complex fertilizers.
24. Briefly explain the production and quality control of azolla and blue green algae.
25. Give a detailed note on organic and inorganic pesticides.

(2×15=30)

