

QP CODE: 24000652



Reg No :
Name :

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

CHOICE BASED CORE COURSE - CH6CBT03 - SOIL AND AGRICULTURAL CHEMISTRY

Common for B.Sc Chemistry Model I, B.Sc Chemistry Model II Industrial Chemistry & B.Sc Chemistry Model III
Petrochemicals

2017 Admission Onwards

E842B18F

Time: 3 Hours

Max. Marks : 80

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. Name three type of rock systems in formation of soil.
2. Is water a mechanical weathering agent? Justify.
3. Write the charecteristics of any two soil groups in kerala.
4. Define the term soil texture.
5. Define buffering capacity.
6. Write any four factors that results in the formation of problem soil.
7. Write any two reclamation methods of acidic soil.
8. How is pottasium deficiency treated in plants ?
9. Write any two methods for determining nutrient needs
10. What are straight fertilizers? Give examples
11. What are biofertilizers and how are they classified ?
12. What are fungicides ? Give examples for sulphur fungicides.

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Explain the soild,liquid and gaseous phase of soil.
14. Write a note on 'soil structure'.
15. Explain the ion exchange reactions of soil that affects nutrient availability,microbial activity and plant growth.
16. Write a note on factors affecting soil fertility.



17. Write a note on role of secondary nutrient in plant growth
18. Write a note on micro nutrient fertilizers
19. Describe the efficient usage of various fertilizers
20. Explain the characteristics of pesticides.
21. Give a note on Chloro compounds as herbicides.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. What do you mean by soil testing ? Explain various steps involved in testing process.
23. Explain (a) various factors affecting nutrient absorption (b) the deficiency symptoms of nutrient absorption.
24. Explain the properties ,uses and relative efficiency of liquid fertilizers.
25. Write a note on impact of pesticides on plants, soil and environment.

(2×15=30)

