

D6BBT2103

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Reg.No.....

Name:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024
(Regular/Improvement/Supplementary)

BOTANY
GBOT6B12T: PLANT BIOCHEMISTRY

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)

1. What do you mean by metabolic intermediates?
2. What are polysaccharides?
3. Write any two examples for secondary metabolites.
4. Comment on Amphibolic pathways.
5. Write down any two Physico-chemical nature of enzymes.
6. What is redox potential?
7. What do you mean by saturated fatty acids?
8. What are triglycerides?
9. Comment on α oxidation of fatty acids.
10. What do you mean by catabolic reactions?
11. What do you mean by hydrolysis of proteins?
12. Define ETC.

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)

13. Explain monosaccharides with structural elucidation of any two examples.
14. Briefly discuss the functions of simple sugars and compound carbohydrates.
15. Write a note on simple lipids with suitable examples.
16. Distinguish between proteinogenic and non proteinogenic aminoacids.
17. Give an account on structural details of nucleotides you have studied.
18. Write an account on various factors affecting enzyme activity.
19. Discuss Oxidative phosphorylation with special emphasis on terminal oxidation.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. Write an essay on structure of proteins with special references on their bonding and denaturation processes.
21. Explain reactions of citric acid cycle with suitable elucidation. Also comment on their significance.

(1 x 10 = 10 Marks)