

20P329

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P BOT3 C11 - PLANT PHYSIOLOGY, METABOLISM AND BIOCHEMISTRY

(Botany)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any **four** questions. Each question carries 2 weightage.

1. Explain the Z-Scheme in Photosynthesis.
2. What is gluconeogenesis?
3. What is Km value of an enzyme?
4. What are Phytochromes?
5. Explain biochemistry of Nitrogen fixation.
6. What are flavonoids?
7. Explain GOGAT Pathway.

(4 × 2 = 8 Weightage)

II. Answer any **four** questions. Each question carries 3 weightage.

8. Explain β oxidation of fatty acid.
9. What is photorespiration? Write down its significance.
10. What is anapleurotic reaction? Give one example.
11. Explain the ecological significance of CAM pathway.
12. Give an account of PRPP and its significance.
13. Explain the role of Cytokinin in plant growth.
14. Enumerate the sugars of biological importance.

(4 × 3 = 12 Weightage)

III. Answer any **two** questions. Each question carries 5 weightage.

15. Explain how plants respond to different types of stress.
16. Write an essay on Dark reaction.
17. Explain oxidative electron transport chain in cellular respiration.
18. Write an essay on classification of Carbohydrates.

(2 × 5 = 10 Weightage)
