

22P329

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Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P BOT3 C07 - PLANT PHYSIOLOGY, METABOLISM AND BIOCHEMISTRY

(Botany)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

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

1. Express on red drop and enhancement effect.
2. Discuss orthodox seeds.
3. Draw the balance sheet of Glycolysis.
4. Gluconeogenesis is energetically costly. Estimate.
5. Cells and Organisms Interconvert Different Forms of Energy. Discuss.
6. Explain saponification of lipids.
7. Explain terpenes.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain the antitranspirants. Add a note on its application.
9. Represent the classification of amino acids.
10. Explain plants responds to water stress.
11. Additional enzymes are required for the oxidation unsaturated fatty acids, solve.
12. Draw the Q cycle.
13. Reactions of secondary metabolism are not necessarily vital? Respond.
14. Illustrate the ultramolecular architecture of membranes.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain the phytochrome mediated photomorphogenic responses in plants.

16. Enzymes lower the energy of activations of reactions, solve.
17. Provide the details of the precursors in a the biosynthesis of purines and pyrimidines.
18. Describe carbohydrates. How are they classified? Add a note on how the compound carbohydrates are formed from monosaccharides.

(2 × 5 = 10 Weightage)
