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SVIS-N-319 A-19
B.Sc. VI Semester Degree Examination
BOTANY
(Plant Physiology and Biotechnology)
Paper - 6.2
(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer All sections
2. Diagram will enhance the value of Answers.

SECTION -A

- I. Answer any TEN Questions from the following in two or more sentences. (10×2=20)**
1. Define plasmolysis and deplasmolysis.
 2. What is respiratory quotient? Write the R.Q. value of carbohydrates.
 3. Define turgor pressure and wall pressure.
 4. What is Anti transparent? Give an example.
 5. Define Warburg effect.
 6. Define vernalization.
 7. Draw and labell the structure of Hydathode.
 8. Define Emerson enhance effect.
 9. Write the differences between aerobic and anaerobic respiration.
 10. What is senescence?
 11. What is tissue culture? Name any two benefits of tissue culture technology.
 12. What is Kranz anatomy? Write the names of two plants showing Kranz anatomy.

SECTION -B

- II. Answer any FOUR of the following Questions. (4×5=20)**
13. What is photoperiodism? Classify the plants based on photo- periodism.
 14. Explain pulsatory theory of Ascent of sap.

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15. Explain external factors effecting on transpiration.
16. Briefly explain physiological role of Auxins in plants.
17. Write a note on Golden rice.
18. Explain biotic stress on plants.

SECTION-C

III. Answer any FOUR of the following Questions.

(4×10=40)

19. Describe the role of macro-nutrients in plant metabolism.
20. Explain various steps of Krebs- cycle.
21. What is translocation of solutes? Explain with the help of mass flow hypothesis.
22. Describe C-3 pathway of photosynthesis.
23. Describe the tools of Genetic engineering.
24. Write note on:
 - a) Carrier concept
 - b) Apoplast and symplast pathways.

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