

Roll No. _____

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SVIS 312 A -16
B.Sc. VIth Semester Degree Examination
BOTANY
(Plant Physiology & Biotechnology)
Paper - 6.2

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) Answer all sections.
- 2) Draw diagrams wherever necessary.

Section - A

I. Answer the following questions in one word or One sentence

(15×1=15)

1. What is turgor pressure?
2. What is vernalization?
3. What are antitranspirants?
4. What are endonuclease?
5. State the law of limiting factor.
6. Expand CAM.
7. What is Explant?
8. What is hypertonic solution?
9. Which is the site of Glycolysis?
10. What are long day plants?

11. What are anaerobes?
12. What is Apoplast?
13. Expand IAA
14. What is RQ value of protein?
15. What are co-enzymes?

Section - B

II. Answer any **Five** of the following.

(5×5=25)

16. Explain various factors affecting transpiration.
17. What are enzymes? Explain mechanism of enzyme action.
18. Explain Non-cyclic photophosphorylation.
19. Explain cytochrome pump theory for mineral salt absorption.
20. Explain physiological effects of Gibberellin.
21. What are transgenic plants? Explain with reference to Golden rice.
22. What is fermentation? Explain alcoholic fermentation

Section - C

III. Answer any **Four** of the following

(4×10= 40)

23. What is ascent of sap? Explain physical force theories.
24. Explain active and passive mechanism of water absorption.
25. Explain calvin cycle with schematic representation.
26. What is translocation? Explain Munch mass flow and cytoplasmic streaming theory
27. Explain Terminal oxidation.

28. Write note on.

- a) Plasmid PBR 322
 - b) Stomatal apparatus
 - c) Plasmolysis.
 - d) Photosynthetic pigments.
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