

Unit Test-II

Class XI

Subject: Biology

Time : 2 Hrs

M.M:50

General Instructions:

- All questions are compulsory
- This question paper consists of five sections A, B, C, D and E.
- Section A comprises of Q1. to Q5. of 1 mark
- Section B comprises of Q6. to Q11. of 2 marks
- Section C comprises of Q12. to Q17. of 3 marks
- Section E comprises of Q18. to Q20. of 5 marks

Section A

1. What are hydathodes?
2. Give two examples of deficiency diseases.
3. What is the full form of IBA?.
4. Define Vernalization.
5. Pickles are well salted to protect them from bacterial contamination. Why?

Section B

6. Define water potential and solute potential.
7. Plant deficient of element zinc show its effect of the biosynthesis of which plant hormone.
8. How is sulphur important for plants? Name the amino acids in which it is present.
9. Write short note on Kranz anatomy.
10. Where are auxin synthesized in plants? Mention any two of their function.
11. Plant growth hormone have innumerable practical applications. Name the plant growth hormone you should use to
 - a) Increase yield of sugarcane
 - b) promote lateral shoot growth
 - c) inhibit seed germination

Section C

12. Give reasons .

- a) Root pressure is not an important factor for upward movement of water in tall trees.
 - b) Water can reach upto endodermis through apoplast but it moves through the endodermis by symplast.
13. What conditions enables Rubis Co to function as an oxygenase? Explain the ensuring process.
14. Give a diagram showing a summary of cell respiration involving the use of carbohydrates, fats and proteins as respiratory substrates..
15. Write the significance of TCA cycle.
16. Trace the events starting from the coming in contact of rhizobium to a leguminous root till nodule formation. Add a note on importance of leg-haemoglobin.
17. Explain the mass flow hypothesis of transport in phloem.

Section D

18. What are photorespiration? Describe the process in detail and link it with the calvin cycle.
19. Explain major steps of glycolysis. Where does it occur in a cell?
20. Write explanatory notes on the following:
- a) PSI and PSII
 - b) chemiosmotic hypothesis