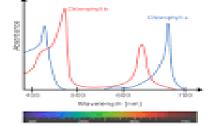


- 9. Suppose Euphorbia and Maize are grown in tropical area;
 I. Which one of them, you think, will be able to survive better under such conditions?
 II. Which one of them is more efficient in terms of photosynthetic activity? Give reason.
- 10. Cyanobacteria and heterotrophic bacteria are put in Eubacteria of Kingdom Monera as per (3) five kindom classification. Can it be justified? Give your reasons.
- 11. What is the relationship between germinal layers and the formation of body cavity in case of (3) coelomate, acoelomate and pseudocoelomate animals?
- 12. Give a schematic representation of glycolytic pathway. What is the product formed in this (3) cycle? What is the fate of this product in aerobic and anaerobic respiration?
- 13. Why is RUBISCO enzyme more appropriately called RUBP Carboxylase- Oxygenase? What (3) important role does it play in Photosynthesis?

OR

What are the important events and products of light reaction? Explain the raw materials, reactions, enzymes and products.

14. A graph depicting the action spectrum and absorption of photosynthesis is given below. (5)



I. What does the action spectrum indicate?II. How can you derive an absorption spectrum for any substrate?III. Why is the rate of photosynthesis higher in the red and blue spectrum of the light?

15. I. What is meant by oxidative decarboxylation?II. Represent the steps that pyruvate undergoes to produce energy schematically.III. What is the fate of the end products of the above pathway?

OR

I. Compare the C_3 and C_4 pathways of photosynthesis. II. Even though the end products are the same, why there are two pathways? Justify. (5)

(2)