

**B.Sc.Part-III, 2019 Exam. Questions (LNMU)**

**BOTANY (PAPER-6)**

1. Answer the following questions in brief :

- (a) Write the properties of disaccharide sugar with suitable example.
- (b) Explain the functional properties of Proteins.
- (c) What is plasmolysis ? Discuss its physiological role.
- (d) Physiological role of Ethylene.
- (e) Vernalization.

**Group-A**

2. What are carbohydrates ? Discuss its classification with suitable examples.
3. Describe the mechanism of enzyme action.
4. Describe the types and properties of saturated and unsaturated fatty acids
5. Describe the chemical structure of DNA

**Group-B**

6. Explain the following terminology; water potential, solute potential and turgor potential. How they are related to each other?
7. What is transpiration. Discuss the mechanism of opening and closing of stomata in the light of Modern concept.
8. Describe the energetics TCA cycle.
9. What is Auxin ? Discuss its physiological role in plants.
10. Give a brief account on any two of the following :  
(a) Photoperiodism (b) Kranz-anatomy (c) Emerson effect (d) Fermentation