

**Jadavpur University**  
Department of Pharmaceutical Technology

**Course: Remedial Biology (Code: BP106RBT)**

**B.Pharm/1<sup>st</sup> Yr/1<sup>st</sup> Sem/End Semester Theory Exam (Session 2021-22)**

**FM: 100**

**Time: 3h**

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**Answer any five questions from both groups (minimum two from each). (5x20=100)**

**Group-A**

1.
  - a. Define living organism.
  - b. List out the rules of binomial nomenclature.
  - c. Give the characteristic features of kingdom Plantae.
  - d. Describe in details the morphology of different parts of flowering plants. (1+3+4+12=20)
2.
  - a. Differentiate macro & micronutrients.
  - b. What do you mean by plant nutrition?
  - c. What is photosynthesis? Describe the process in details.
  - d. Write down the various factors affecting photosynthesis. (6+1+9+4=20)
3.
  - a. What are the various phases of plant growth?
  - b. Write a short note on cell division.
  - c. Write down the structure and functions of cell. (6+6+8=20)

**Group-B**

1. Draw the labelled diagram of human digestive system. Explain the process of digestion, absorption and assimilation of food. (10+10)
2. Write human excretory system structure and function. Explain the process of urination. (10+5)+5
3. Draw the structure of human heart and blood vessels. Write short notes on cardiac cycle, cardiac output and ECG. (8+3)+(3+3+3)