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Model Questions Paper

Entrance Examination for Ph.D Admission(March 2012)

Part A (10X1=10) Marks

- 1. Counterstain used in gram staining is
 - a. Crystal violet b. alcohol c. iodine d. none of the above
 - 2. Whis enzyme is needed to fix nitrogen into organic compounds?
 - a. Nitrogenase b. glutamine synthase c. glutamate synthase d. both B & C
 - 3. The random loss of alleles in a population is called
 - a. Mutation b. selection c. genetic drift d. gene flow

Part B (6X5=30) Marks

- **1.** What are the different levels of protein structure?
- 2. What is the principle behind the production of monoclonal antibodies?
- **3.** What are the applications of the Human Genome Project?