



**Quaid-i-Azam University**  
B. Sc Annual Examination  
Paper-D Biochemistry-IV  
(Subjective Model Paper)

**Maximum Marks: 32**

**Time : 2 Hours 35 Minutes**

**Note:- Attempt any FOUR questions. All questions carry equal marks.**

**SECTION –B**

- Q 2) Describe in detail the mechanism of dialysis. 08**
- Q 3) Describe the polymerase chain reaction by providing chemicals and temperature conditions at various stages. 08**
- Q 3) How do human genome project is important in reference to social consideration. 08**
- Q 4. a) What is recombinant DNA technology? 02**
- b) Describe the mechanism of cloning for plasmid vectors. 06**
- Q 5) Describe the mechanism of Southern blotting. Give its importance in molecular biology. 08**
- Q 6) What is electrophoresis. Describe the SDS-polyacrylamide gel electrophoresis. 08**
- Q 7) Describe the various gels of thin layer chromatography. 08**