

International Islamic University Chittagong

Department of Pharmacy

B.Pharm (Hons.) Program

Mid-term Examination

Spring Semester 2024

Course Code: PHARM-2305

Course Title: Biochemistry and Molecular Biology-I

Time: 1 hour 30 minutes

Full Marks: 30

*(Answer any three questions from the followings. Figures in the right margin indicate marks)*

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1. a) What is Biochemistry and Molecular Biology? "Biochemistry and Molecular Biology is important to know the recent trends in drug design and development" — explain. 5  
b) Define genotype and phenotype. Establish a relation among DNA, gene and protein. 5
2. a) Analyze the Mendel's principles of inheritance. 5  
b) How does a person can carry the allele for cystic fibrosis without showing any symptom? What would be the possible genotype and phenotype for his children? 5
3. a) Enumerate the meiotic divisions of the cell. 5  
b) What do monohybrid and dihybrid cross mean? Explain the chromosomal sex determination in mammal. 5
4. a) Diagrammatically represent the structure of eukaryotic chromosome with different parts. 5  
b) Explain the genetic abnormalities associated with chromosomal trisomy. 5