

International Islamic University Chittagong

Department of Pharmacy

Program B. Pharm (Hons.)

Midterm Examination

Spring Semester 2024

Course Code: PHARM-3607

Course Title: Medicinal Chemistry-II

Time: 1 hour 30 minutes

Full Marks: 30

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

1. a) Define medicinal chemistry. Precise the steps of drug discovery. 3
b) Rewrite your own speech about rational directions of random screening. 2
c) Evaluate the role of serendipity in drug discovery and development. 3
d) Outline the objectives and significances of molecular modifications. 2
2. a) "Molecular association can increases both quality and quantity of drug effect"- Justify 4
b) Summarizes the outcomes from molecular simplification with examples. 3
c) Elucidate the effects of ring opening and chain closer on drug action. 3
3. a) Outline the role of double bonds in molecular modification. 3
b) How can you convert an agonist into antagonist? Discuss the processes. 3
c) "Chiral center has influences on biological activity"- Explain 4
4. a) Define drug latention. List the factors considered in design of pro-drug. 3
b) What is bioprecursor? Describe the development of sulindac. 3
c) Evaluate the properties and applications of soft drugs. 4