

**JR-3702**

**M. Sc. (Fourth Semester) Examination, June 2022**

**DRUG & PHARMACEUTICAL CHEMISTRY**

*Paper : Second*

**(Drug Design and Medicinal Chemistry)**

*Time Allowed : Three hours*

*Maximum Marks : 40*

*Note : Attempt questions of all two sections as directed. Distribution of marks is given with sections.*

**Section - A**

**(Short Answer Type Questions)      5×3=15**

*Note : Attempt all five questions. One question from each unit is compulsory. Each question carries 03 marks. Word limit to each question is 100.*

**JR-3702**

**PTO**

**| 2 |**

**Unit-I**

1. Explain SAR (Structure Activity Relationship) with suitable example.

**Or**

Illustrate important factors affecting bioactivity.

**Unit-II**

2. Discuss enzyme inhibitors with example.

**Or**

Write note on membrane active drugs.

**Unit-III**

3. Explain broad spectrum antibiotics with example.

**Or**

Differentiate between antibiotics and antibacterial drugs with proper example.

**Unit-IV**

4. Explain structure and function of Chloroquine.

**JR-3702**

[ 3 ]

Or

Write note on Antifungal Polyenes.

#### Unit-V

5. What are antihistaminic agents? Give example.

Or

Describe the non steroidal drugs with example.

#### Section-B

(Long Answer Type Questions) 5×5=25

*Note : Attempt all five questions. One question from each unit is compulsory. Each question carries 05 marks. Word limit to each question is 800.*

#### Unit-I

6. Describe Receptor site theory of drug action with example and suitable diagram.

Or

- (a) Discuss the importance of combinational synthesis in drug discovery.

JR-3702

PTO

[ 4 ]

- (b) Discuss the relationship between Free Wilson and Hansch analysis.

#### Unit-II

7. Write short notes on :

- (i) Xenobiotics
- (ii) Biotransformations

Or

Write a note on significance of drug metabolism in medicinal chemistry.

#### Unit-III

8. Describe synthesis and drug action of antitubercular-streptomycin.

Or

Write short notes on :

- (i) Penicillin
- (ii) Actinomycin D

#### Unit-IV

JR-3702

9. Discuss mechanism of chemotherapy of malaria with suitable diagram.

**Or**

Write note on antiviral – Acyclovir.

**Unit-V**

10. Write detailed note on anti asthmatic agents with two examples.

**Or**

Write notes on : (any **two**)

- (i) Diclofenac sodium
- (ii) Cinnarizines
- (iii) Ibuprofen

**<https://www.ujjainstudy.com>**

**Whatsapp @ 9300930012**

**Send your old paper & get 10/-**

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

**Paytm or Google Pay से**