

IR-1753**M. Sc. (Third Semester) Examination, Dec. 2021****DRUG & PHARMACEUTICAL CHEMISTRY*****Paper : Third*****(Pharmaceutical Medicinal Chemistry-I)*****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 the **five** questions. Each question carries 3 marks. Maximum word limit for each question is 100 words.

Unit-I**1. Draw only structures of the following (any three) :****(i) Halothane**

- (ii) Thiopental sodium
- (iii) Lithocaine
- (iv) Eucaine
- (v) Cocaine

Unit-II**2. Give the synthesis of barbiturates.****Or**

Give the classification of anticonvulsant drugs.

Unit-III**3. Write the synthesis of adrenaline.****Or**

Give the classification of adrenergics.

Unit-IV**4. Discuss the mechanism of action of acetyl choline.****Or**

Give the synthesis of echothiophate iodide.

Unit-V**5. What is the difference between analgesics, antipyretics and anti inflammatory drugs, explain with examples.**

Or

Give the classification of analgesics and antipyretic drugs.

Section-'B'

(Long Answer Type Questions) 5×5=25

Note : Attempt all the five questions. Each question carries 5 marks. Maximum word limit for each question is 800 words.

Unit-I

6. Discuss the preparation, properties and application of halothane and chloroform.

Or

Give the synthesis, therapeutic applications and mechanism of action of cocaine.

Unit-II

7. Discuss the structure, synthesis and mode of action of any **one** of the following : <https://www.ujjainstudy.com>
- Allobarbitol
 - Phenobarbital

Unit-III

8. Give the synthesis, therapeutic applications and mechanism of action of Isoprenaline **or** Phenoxybenzamine.

Unit-IV

9. Give the classification and SAR of cholinergic agonist.

Or

Give the synthesis, properties, therapeutic application, side effects and doses of acetyl choline.

Unit-V

10. Discuss the synthesis, SAR, side effects and doses of aspirin.

Or

Discuss the synthesis, mechanism of action and SAR of mefenamic acid.