

Ref. No.: Ex/BP402T/2025

B.Pharm 2nd Year 2nd Semester Examination-2025

BP-402T

Medicinal Chemistry-I

FM-75

Time-3 hrs

Answer any five questions taking at least two from each group

Group-A

1. a) What are the cardinal symptoms of inflammations?
b) Define and classify non steroidal anti-inflammatory drugs with examples.
c) Discuss mode of action and SAR of Salicyclic acid derivatives/Indole acetic acid derivatives. 2+4+9=15
2. a) Outline synthesis and chemical names of the following (any six)

Ibuprofen, Antipyrine, Paracetamol, Phenylbutazone, Tolmetin sodium, Zomepirac sodium, Diclofenac sodium & Meclofenamic acid 2.5×6 = 15
3. a) Define Narcotic and Non-narcotic analgesics with examples.
b) Outline the structure of Morphine, Codeine, Heroine, Caffeine, Theophylline and Theobromine. 3+12 =15
4. a) Define & classify sedative hypnotic drugs with examples.
b) Discuss the structure with chemical names of the following
Pentobarbitone Sodium, Phenobarbitone Sodium, Diazepam, Thiopentone Sodium, Clonazepam & Nitrazepam. 3+12 =15

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Group-B

5. Explain Phase I and Phase II metabolism with suitable examples. 15
6. a) Classify Bio-isostearism with suitable examples. 7+6+2
b) What happened after metabolism of acetaminophen, aspirin and 6-marcaptopurine? Write with structure(s).
c) How acetyl chloride was bio-synthesized? Write in details.
6. Write about all physicochemical parameters responsible for biological action. 15
8. a) Write synthetic procedure for Carbachol. 4+8+3
b) Write SAR of Acetyl chloride?
c) Classify anticholinesterase with examples.