

B.Pharm II Year II Semester (R19) Supplementary Examinations February 2023

PHARMACOLOGY - I

(For 2019, 2020 regular & 2020, 2021 lateral entry admitted batches only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- | | | |
|-----|--|----|
| (a) | What do you mean by competitive antagonism? | 2M |
| (b) | Write the enzyme induction and inhibition with examples. | 2M |
| (c) | Mention the types of signal transduction mechanism. | 2M |
| (d) | Write note on significance of therapeutic index. | 2M |
| (e) | Classify skeletal muscle relaxants. | 2M |
| (f) | What are the drugs used in myasthenia gravis? | 2M |
| (g) | What is the Mechanism of action of Procaine. | 2M |
| (h) | Define Epilepsy and mention different types of epilepsy. | 2M |
| (i) | What are the withdrawal symptoms of antidepressants? | 2M |
| (j) | Write about types of opioid Receptors. | 2M |

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- | | | | |
|---|-----|---|----|
| 2 | (a) | What are G-protein coupled receptors? Explain about the G-protein couple signal transduction mechanism. | 5M |
| | (b) | Write detailed note on pharmacodynamic Drug-Drug interactions. | 5M |
| 3 | (a) | Write the classification of sympathomimetics. Explain the pharmacological actions, side effects and uses of adrenaline. | 6M |
| | (b) | Describe the neurohumoral transmission with examples. | 4M |
| 4 | (a) | Classify of antidepressant drugs. Explain the pharmacology of Fluoxetine (SSRIs). | 6M |
| | (b) | Describe the Pharmacology of Diazepam. | 4M |

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- | | | | |
|---|-----|---|----|
| 5 | (a) | Write a note on different route of drug administration with examples. | 3M |
| | (b) | Write a note on Competitive antagonist. | 2M |
| 6 | (a) | Discuss the different steps involved of drug discovery. | 3M |
| | (b) | What are applications of pharmacovigilance? | 2M |
| 7 | (a) | Explain the pharmacological actions, side effects and uses of atropine. | 3M |
| | (b) | Write the mechanism of action and uses of pancuronium. | 2M |
| 8 | (a) | Describe the pharmacology of Sodium valproate. | 3M |
| | (b) | What is the role of GABA in central nervous system? | 2M |

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B.Pharm II Year II Semester (R19) Supplementary Examinations March 2022
PHARMACOLOGY – I

Time: 3 hours

Max. Marks: 75

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What is agonist and antagonist?
 - Write the advantages and disadvantages of sublingual route of administration.
 - Define enzyme inhibition. Give example of drugs which inhibit drug metabolizing enzyme.
 - Mention types of muscarinic receptors.
 - What is therapeutic index?
 - What is neurohumoral transmission?
 - Define Myasthenia gravis and mention drugs used in Myasthenia gravis.
 - Define epilepsy and mention different types of epilepsy.
 - Write about types of opioid receptors.
 - Classify ganglionic stimulant.

PART – B
(Answer any two questions: 02 X 10 = 20 Marks)

- Explain the factor modifying drug action.
 - Discuss the various route of drug administration.
- Discuss about the pharmacology of cholinesterase inhibitors.
 - Discuss about the pharmacology of adrenergic agonists.
- Classify anti-depressants. Explain the pharmacology of tricyclic antidepressants.
 - Write a note on drug abuse.

PART – C
(Answer any seven questions: 07 X 05 = 35 Marks)

- Write a note on G protein coupled receptors.
- Discuss in detail about drug discovery flow chart.
- Classify adrenergic drugs and explain pharmacology of adrenaline.
- With a neat sketch, explain neurotransmission in adrenergic nervous system.
- Write a note on excitatory neurotransmitters present in CNS.
- Explain the pharmacology of Levodopa.
- Explain the pharmacology of Phenytoin.
- Write the significance of lithium salts as antipsychotic drug.
- Explain in detail about pharmacokinetic drug interactions.

B.Pharm II Year II Semester (R19) Regular & Supplementary Examinations September 2022
PHARMACOLOGY – I

Max. Marks: 75

Time: 3 hours

PART – A
(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- (a) Define idiosyncrasy.
- (b) Define antagonist with examples.
- (c) What is pharmacovigilance?
- (d) What is adverse drug reaction?
- (e) Write any two sympatholytic drugs.
- (f) Define glaucoma and its types.
- (g) Write ADR and uses of phenytoin.
- (h) Write any two drugs act on GABA receptor.
- (i) Name two abuse drugs.
- (j) Write about extra pyramidal side effects.

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Name the various routes of drug administration.
(b) Explain in detail about different routes of administration.
- 3 (a) Classify skeletal muscle relaxants.
(b) Write a note on depolarizing and non-depolarizing muscle relaxants.
- 4 (a) Classify opioid analgesics.
(b) Write the pharmacological action, therapeutic uses and ADR of morphine.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write a short note on enzyme inhibition.
- 6 Write a note on drug-drug interaction.
- 7 Write the causes and treatment of myasthenia gravis.
- 8 Difference between benzodiazepines and barbiturates.
- 9 Define parkinsonism. Classify the drugs used in parkinsonism.
- 10 Write about JAK-STAT binding receptor.
- 11 Define neurotransmitter and classification of neurotransmitter.
- 12 Write the treatment of alcohol addiction.
- 13 Write a note on opioid antagonist.

Code: BP404T

B.Pharm II Year II Semester (R19) Regular Examinations September 2021
PHARMACOLOGY – I

Max. Marks: 75

Time: 3 hours

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What are the different sources of drugs?
 - What is tachyphylaxis and synergism?
 - Define drug dependence.
 - Write the advantages and disadvantages of oral route of administration.
 - What is first pass metabolism?
 - Define enzyme induction. Give example of drugs which induce drug metabolizing enzyme.
 - Define receptors. Mention different types of cholinergic receptors.
 - Write a short note on disulfiram.
 - Classify antipsychotic drugs.
 - Define glaucoma and mention drugs used in glaucoma.

PART – B
(Answer any two questions: 02 X 10 = 20 Marks)

- Discuss about mechanism of drug action.
 - Explain in detail about G protein coupled receptors.
- Classify anticholinergic drugs. Write about atropine pharmacological action.
 - Discuss about pharmacology of Skeletal muscle relaxant.
- Classify antipsychotic drugs. Write about pharmacology of chlorpromazine.
 - Explain the mechanism of action of anti epilepsy drugs.

PART – C
(Answer any seven questions: 07 X 05 = 35 Marks)

- Explain in detail about enzyme induction and enzyme inhibition.
 - Write a short note on renal clearance of drugs.
- Enumerate the phases of clinical trials.
 - Write a note on adverse drug reaction.
- Classify local anaesthetics. Write the pharmacology of procaine.
 - Classify Neuromuscular blocking agents.
- Write a short note on centrally acting muscle relaxant.
 - Describe the stages of general anaesthetics.
- Discuss the pathophysiology of Parkinson's disease.
 - Write a note on drugs available for Parkinson's disease.

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