Printed Pages: 01 *SubCode:BP404T*

Paper Id: 150302 *Roll No.*

B PHARM
(SEM-IV)THEORYEXAMINATION 2018-19
PHARMACOLOGY-I

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt allSections.Ifrequireanymissingdata; then choose suitably.

SECTION A

1. Attempt allquestionsinbrief. ***10 x 2 = 20***

a. Define Cross Tolerancewithexample.

b. What is the effectofacidificationofurineonexcretion of acidic and basic drugs?

c. Explain the effectofcompetitiveantagonistondose-response curve for an agonist.

d. Differentiate Adverseevent(AE)andAdversedrugreaction (ADR).

e. Why atropine iscontraindicatedinglaucoma?

f. Write the clinicalusesofGlycopyrrolateandIsosuxaprine.

g. Differentiate MAO-AandMAO-Binhibitorswithexamples.

h. Why Preanestheticmedicationisnecessaryduringsurgery?

i. What are extrapyramidalsideeffects?

j. Differentiate naturalandacquiredtolerance.

SECTION B

2. Attempt any two parts of the following: ***2 x 10 = 20***

a. Discuss different factors modifying drug action.

b. Classify sympatholytics. Discuss the pharmacologyof Adrenaline.

c. Write the classification of antiepileptic drugs. Explain the mechanism of action of any four anti-epileptic drugs.

SECTION C

3. Attempt any five parts of the following: ***7 x 5 = 35***

a. What do you mean by Apparent volume of distribution? Explain carrier-mediated drug transport in brief.

b. Give a detail account on essential drugs concept.

c. Write a note on combined effects of drugs.

d. Discuss the mechanism of action, uses and side effects of D-Tubocuraine.

e. Write a note on Neurohumoral transmission in the C.N.S.

f. Write down the classification of antiparkinsonian drugs. Why anti-cholinergics are used in the management of Parkinson's disease?

g. Discuss the pharmacology of chlorpromazine in detail.

Paper Id: 910029 *Roll No:*

B. PHARM
(SEM-IV) THEORY EXAMINATION, 2019-20
PHARMACOLOGY-I

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. ***10 x 2 = 20***

a. Define Tachyphylaxis with example.

b. What do you mean by Plateau principle in Pharmacokinetics?

c. Write the significance of STAT in JAK-STAT signaling.

d. What is Phase 0 clinical trial?

e. What do you mean by Cotransmission?

f. Write the clinical uses of Ritodrine and Salbutamol.

g. Write the mechanism of action of Vigabatrin.

h. What is diffusion hypoxia?

i. Write the mechanism of action of Tolcapone and Rasagiline.

j. What do you mean by drug dependence?

SECTION B

2. Attempt any twoparts of the following: ***2 x 10 = 20***

a. What is Pharmacovigilance? Explain differentphases of clinical trials in detail.

b. Discuss different pharmacological actions of acetylcholine in detail.

c. Classify peripherally-acting skeletal muscle relaxants. Write a note on pharmacology of Lidocaine.

SECTION C

3. Attempt any fiveparts of the following: ***7 x 5 = 35***

a. Explain various routes of drug administration in detail.

b. What is biotransformation? Describe the significance of plasma protein binding.

c. Explain signal transduction mechanisms in G-protein-coupled receptor signaling.

d. Discuss the mechanism of action, uses and side effects of Propranolol.

e. Classify Sedatives. Write down the differences between benzodiazepines and barbiturates.

f. Write a short note on Nootropics.

g. Write down the classification of antidepressants and anti-anxiety agents.

BPEARM
(SEM IV) THEORY EXAMINATION 2021-22
PHARMACOLOGY I – THEORY

Time: 3 Hours *Total Marks: 75*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a.	Examine advantages and disadvantages of oral routes of administration.
b.	Define the terms bioavailability.
c.	Elaborate therapeutic index and synergism.
d.	Explain mechanism of action of local anesthetics.
e.	Demonstrate the synthesis, storage and release of adrenaline diagrammatically.
f.	Enlist drugs used for open angle glaucoma.
g.	Define and classify neurotransmitters.
h.	Compare general and local anesthetic agents.
i.	Classify drugs for Alzheimer's disease.
j.	Compare drug addiction and habituation.

SECTION B

2. Attempt any *two* parts of the following: 2 x 10 = 20

a.	Explain various drug receptor signal transducer mechanisms.
b.	Summarize antiepileptic drugs and their mechanisms. Explain pharmacology of sodium valproate. https://www.aktuonline.com
c.	Classify opioid analgesics. Discuss pharmacology of morphine.

SECTION C

3. Attempt any *five* parts of the following: 7 x 5 = 35

a.	Illustrate various factors affecting drug absorption.
b.	What do you understand by preclinical evaluations? Discuss various clinical trial phases.
c.	Classify anticholinergics. Discuss pharmacological action and uses of atropine.
d.	Summarize steps involved in neurohumoral transmission of autonomic neurons.
e.	Explain various stages of anesthesia. Discuss preanesthetic medication.
f.	Classify drugs for Parkinson's disease. Explain levodopa therapy.
g.	Discuss the mechanism of action, pharmacological actions and uses of Benzodiazepines and barbiturates.

Printed Pages: 01 *Sub Code:BP404T*

Paper Id: 238175 *Roll No.*

B PHARM
(SEM IV) THEORYEXAMINATION 2022-23
PHARMACOLOGY-1THEORY

Time: 3 Hours ***Total Marks: 75***

Note: Attemptall Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. ***10 x 2 = 20***

(a) Define drug tolerance.Explain with example.
(b)What is enzyme inhibition? Give one example of enzyme inhibitors
(c)What do you mean by regulation of receptors?
(d) Define dose response relationship.
(e)What is co-transmission of neurotransmitter?
(f) What is mechanism of action of local anaesthetics?
(g)What are pre-anaesthetics agents? Explain with example
(h)Give drug interaction between MAO inhibitors and sympathomimetic Drugs
(i) What are hallucinogens. Give two examples.
(j) Differentiate between partial agonist and inverse agonist. Explain with example

SECTION B

2. Attempt any twoparts of the following: ***2 x 10 = 20***

(a)Whatis signaltransduction.Discuss in detail JAK-STAT binding receptors.
(b) Explain in detail factors modifying drug action.
(c) Classify sympathomimetic drugs. Give pharmacological action, adverse effect and uses of Adrenaline

SECTION C

3. Attempt any fiveparts of the following: ***7 x 5 = 35***

(a) Elaborate drugusedin treatmentof Glaucoma
(b) Explain in detail G-protein coupled receptor.
(c) Describe the Principle and mechanism of action of drug
(d) Describe Neurohumoral transmission in ANS
(e) Classify Antiepileptics. Give pharmacological action, adverse effect and uses of Phenytoin
(f) Discuss various routes of drug administration. Elaborate advantage and disadvantage of Oral route.
(g) Classify Anti-parkinsons Drugs. Give mechanism of action, pharmacological action, adverse effect and uses of levodopa.

PAPER ID-411382

Roll No:

BPHARMA
(SEM IV) THEORY EXAMINATION 2023-24
PHARMACOLOGY I - THEORY

TIME: 3 HRS

M.MARKS: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt *all* questions in brief.** 10 x 2 = 20

a.	Define Idiosyncracy and Allergy.
b.	Differentiate between Enzyme induction and Enzyme inhibition.
c.	Write short note on Dose Response relationship.
d.	What is clinical trial of drug. Name its different phases.
e.	What are sympathomimetic drug. Give 2 example
f.	What is Neurohumoral transmission?
g.	List the drugs used as Preanaesthetics.
h.	What are centrally acting Muscle relaxant. Give 2 examples.
i.	Give the rationale of giving Carbidopa along with levodopa
j.	What are antimanics. Give 2 examples of antimanic drug.

SECTION B

2. **Attempt any *two* parts of the following:** 2 x 10 = 20

a.	What is absorption of drug. Explain various factors affecting Drug absorption.
b.	Elaborate in detail Drug discovery of new drug.
c.	What are Local Anaesthetics. Give Pharmacological actions and Mechanism of action of Lignocaine

SECTION C

3. **Attempt any *five* parts of the following:** 7 x 5 = 35

a.	Elaborate in detail Essential drug concept.
b.	What is Signal transduction Mechanism. Discuss in detail signal transduction in JAK-STAT binding receptor.
c.	Discuss in detail concept of Pharmacovigilance.
d.	Classify sympathomimetics. Discuss in detail pharmacology of Adrenaline.
e.	Explain in detail drugs used in Myasthenia gravis.
f.	What are Psychopharmacological agents. Classify Antidepressants. Give the pharmacological actions and adverse effects of Imipramine
g.	Classify General anaesthetics. Explain stages of Anaesthesia. Discuss advantage and Disadvantage of Nitrous oxide.

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Subject Code: BP404T

PAPER ID-311168

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM IV) THEORY EXAMINATION 2023-24
PHARMACOLOGY I – THEORY

TIME: 3HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	
b.	Write advantages andlimitationsof oral route of administration.
c.	Compare active and passive membrane transport systems.
d.	What do you understand by therapeutic index?
e.	Justify the use of adrenaline with local anaesthetics.
f.	Define glaucoma.
g.	Give treatment approaches in belladona poisoning.
h.	Describe clinical trial phases.
i.	Differentiate sedatives from hypnotics.
j.	What do you understand by hallucinogens?
	Write uses of various classes of drugs as preanaesthetic medication with example.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	
b.	Classify antiepileptics.Givevariousmechanisms of antiepileptic drugs.
c.	Explain various receptor signal transduction mechanisms.
	Classify opioids. Discuss pharmacology of morphine.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a.	Explain various factors affecting drugaction.
b.	Illustrate various steps involved in neurohumoral transmission.
c.	Elaborate the pharmacology of acetylcholine.
d.	Write a detailed note on Alzheimer's disease and its therapy.
e.	Classify antidepressants. Give pharmacological actions of tricyclic antidepressants.
f.	Discuss pharmacological action, mechanism of action and uses of barbiturates.
g.	
	Explain pharmacological implications ofalcohol withdrawal and its treatment.

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PAPER ID-311391

Roll No: | | | | | | | | | | | | | |

Subject Code: BP404T

BPHARM
(SEM IV) THEORY EXAMINATION 2024-25
PHARMACOLOGY I – THEORY

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Describe theterm‘Agonist’.
b.	Define the term ‘Drug’.
c.	Discuss adverse drug reactions.
d.	Comment on Pharmacovigilance.
e.	Write a brief note on Acetylcholine.
f.	What are neuromuscular blocking agents?
g.	Describe the term GABA.
h.	Share your views on role of dopamine in CNS.
i.	Discuss opioid analgesics.
j.	Define tolerance.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Whatdo youunderstandby Pharmacokinetics?Discuss thevarious mechanismsofdrug absorption.
b.	Explain G protein coupled receptors.
c.	Write a detailed note on anti-epileptic drugs.

SECTION C

3. Attempt any *five* parts of the following: **5 x 7 = 35**

a.	
b.	Summarize the variousroutes of drug administration.
c.	Outline the various phases of clinical trials.
d.	Describe Parasympathomimetics.
e.	Write down the classification of drugs used in myasthenia gravis and glaucoma.
f.	Describe sedatives class of drug with examples involving mechanism of action.
g.	Explain drugs used in Parkinson’s disease.
	Comment on : i. Antipsychotics ii. Antidepressants

Paper ID : 261919

Subject Code:BP404T

Roll No:													

BPHARM
(SEM. IV) THEORY EXAMINATION 2025-26
PHARMACOLOGY I – THEORY

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Define terms pharmacokinetics and pharmacodynamics.
b.	Differentiate competitive and non- competitive antagonist.
c.	Enlist various types of surface receptors.
d.	What is the difference between tolerance and dependence?
e.	Write the formula to calculate therapeutic index.
f.	Mention the phases of clinical trial.
g.	Outline the functions of sympathomimetic neurotransmitter with example.
h.	Enumerates the examples of skeletal muscle relaxants.
i.	What do you mean by myasthenia gravis?
j.	Give the examples of preansesthetic medications.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Classify receptors. Explain G-protein coupledreceptors in detail.
b.	Explain neurohumoral transmission of GABA and dopamine along with their pharmacological action.
c.	Describe pharmacology of drugs used in Parkinson's disease.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a.	Explain drug metabolism and excretion in detail.
b.	Illustrate essential drugs concept and routes of drug administration.
c.	Write a note on pharmacokinetic and pharmacodynamic drug interaction with example.
d.	Classify anticholinesterages. Explain pharmacological actions and therapeutic uses of these agents.
e.	Give classification of antidepressants. Mention the pharmacological actions of tricyclic antidepressants.
f.	Enlist opioids. Discuss pharmacology of opoids and their therapeutic uses.
g.	Describe the pharmacology of CNS stimulants in detail