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**B PHARM**  
**(SEM-IV) THEORY EXAMINATION 2018-19**  
**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 Cross Tolerance with example.
- b. What is the effect of acidification of urine on excretion of acidic and basic drugs?
- c. Explain the effect of competitive antagonist on dose-response curve for an agonist.
- d. Differentiate Adverse event (AE) and Adverse drug reaction (ADR).
- e. Why atropine is contraindicated in glaucoma?
- f. Write the clinical uses of Glycopyrrolate and Isosuxaprine.
- g. Differentiate MAO-A and MAO-B inhibitors with examples.
- h. Why Preadnesthetic medication is necessary during surgery?
- i. What are extrapyramidal side effects?
- j. Differentiate natural and acquired tolerance.

**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 pharmacology of 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-Tubocurarine.
- 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.

**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 different phases 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.

# CAREWELL PHARMA - A FAMILY OF LEARNING

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Roll No: \_\_\_\_\_

Subject Code: BP404T

### 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. <a href="https://www.aktuonline.com">https://www.aktuonline.com</a>
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.

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

**Time: 3 Hours****Total Marks: 75****Note:** 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 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) What is signal transduction. 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 drug used in treatment of 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

Printed Page: 1 of 1  
Subject Code: BP404T

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 Idiosyncrasy 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.                  |



PAPER ID-311168

Printed Page: 1 of 1

Subject Code: BP404T

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**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.	Write advantages and limitations of oral route of administration.
b.	Compare active and passive membrane transport systems.
c.	What do you understand by therapeutic index?
d.	Justify the use of adrenaline with local anaesthetics.
e.	Define glaucoma.
f.	Give treatment approaches in belladonna poisoning.
g.	Describe clinical trial phases.
h.	Differentiate sedatives from hypnotics.
i.	What do you understand by hallucinogens?
j.	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.	Classify antiepileptics. Give various mechanisms of antiepileptic drugs.
b.	Explain various receptor signal transduction mechanisms.
c.	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 drug action.
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 of alcohol withdrawal and its treatment.

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PAPER ID-311391

Printed Page: 1 of 1

Subject Code: BP404T

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**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 the term '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.	What do you understand by Pharmacokinetics? Discuss the various mechanisms of drug 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.	Summarize the various routes of drug administration.
b.	Outline the various phases of clinical trials.
c.	Describe Parasympathomimetics.
d.	Write down the classification of drugs used in myasthenia gravis and glaucoma.
e.	Describe sedatives class of drug with examples involving mechanism of action.
f.	Explain drugs used in Parkinson's disease.
g.	Comment on : <ul style="list-style-type: none"> <li>i. Antipsychotics</li> <li>ii. Antidepressants</li> </ul>



# BPharma Bot02

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