



**B PHARM**  
**(SEM-V) THEORY EXAMINATION 2020-21**  
**PHARMACOLOGY-II**

**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 arrhythmia. What do you understand by re-entry?   |
| b. | Write the mechanism of action of nitrates.   |
| c. | Low molecular weight heparin is better than high molecular weight heparin. Justify.                      |
| d. | How aspirin acts as antiplatelet?  |
| e. | Summarize the physiological and pathological role of prostaglandins on uterus and cardiovascular system. |
| f. | Illustrate the mode of action of allopurinol as anti-gout drug.  |
| g. | Enlist various endocrine glands and hormones secreted by each of them.                                   |
| h. | Explain the regulation of insulin secretion.   |
| i. | Define Bioassay. Classify various types of bioassay.   |
| j. | What are anabolic steroids?  |

**SECTION B**

**2. Attempt any two parts of the following:**

**2 x 10 = 20**

- |    |  |
|----|--|
| a. | Classify drugs for CHF. Describe the mechanism, pharmacological action, uses, interactions of digitalis. |
| b. | Enlist NSAIDs. Discuss the detailed pharmacology of aspirin.   |
| c. | Summarize the class of drugs acting on uterus. Explain the pharmacology of oxytocin.                     |

**SECTION C**

**3. Attempt any five parts of the following:**

**5 x 7 = 35**

- |    |  |
|----|--|
| a. | Classify antihyperlipidemic drugs and discuss the pharmacology of HMG-CoA reductase inhibitors.                      |
| b. | What are hematinic? Discuss the pharmacological actions and uses of iron.  |
| c. | Illustrate the mode of action, uses and adverse reactions of warfarin sodium.  |
| d. | Demonstrate arachidonic acid pathway. Explain the physiological and pathological roles of prostaglandins.            |
| e. | Classify various types of diabetes. Explain the mode of action, adverse reactions, interactions and uses of insulin. |
| f. | Classify thyroid inhibitors. Explain the pharmacology of thioamides.   |
| g. | Describe various types of oral contraceptives. Explain the rationale of oral contraception.                          |



PAPER ID:410124

Printed Page: 1 of 1

Subject Code: BP503T

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**B PHARM**  
**(SEM V) THEORY EXAMINATION 2021-22**  
**PHARMACOLOGY II**

**Time: 5 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.** **$10 \times 2 = 20$** 

a.	Discuss Starling's Law.
b.	Enlist drugs acting on Renin-angiotensin system.
c.	Aspirin can be used as antiplatelet drug. Justify.
d.	Compare spironolactone and amiloride.
e.	Define autacoids and classify them.
f.	How colchicine is effective in improving gout?
g.	Classify hormones secreted from pituitary glands.
h.	Explain the hormonal control of insulin release.
i.	What do you understand by anabolic steroids? Give examples.
j.	Summarize applications of bioassay.

**SECTION B****2. Attempt any two parts of the following:** **$2 \times 10 = 20$** 

a.	Enlist antihypertensive drugs. Give pharmacology of nitrates.
b.	Classify diuretics. Give mechanism, pharmacological actions, side effects, uses and limitations of furosemide.
c.	What are various thyroid inhibitors. Explain pharmacology of thioamides.

**SECTION C****3. Attempt any five parts of the following:** **$7 \times 5 = 35$** 

a.	Discuss the detailed pharmacology of digoxin.
b.	Classify antihyperlipidemic drugs. Explain mechanism and side effects of statins.
c.	Describe physiological and pathophysiological roles of prostaglandins.
d.	Write pharmacological action, adverse drug reaction, uses and interaction of aspirin.
e.	Classify antihyperglycemic drugs. Discuss mode of action of sulfonylurea.
f.	Describe the pharmacology of oxytocin.
g.	Discuss bioassay of insulin.

**B PHARM**  
**(SEM V) THEORY EXAMINATION 2022-2023**  
**PHARMACOLOGY-II**

**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. 2 x 10= 20**

- a. Define inotropic agents with suitable example.
- b. Write mechanism of action and uses of statins.
- c. Give example and uses of plasma volume expanders.
- d. Write mechanism of action and uses of streptokinase.
- e. Write a short note on 5-HT<sub>3</sub> antagonists.
- f. Write uses of prostaglandin analogues.
- g. Enlist hormones regulating plasma calcium level.
- h. How thyroid hormones play a crucial role in metabolism?
- i. What do you mean by Tocolytics?
- j. Highlight the advantages of multiple point bioassay.

**SECTION B**

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

- a. Illustrate pharmacology of anti-hypertensive drugs and design drug therapy for management of hypertension during pregnancy.
- b. Classify NSAIDs and explain pharmacology of aspirin.
- c. Explain pharmacology of oral hypoglycemic agents.

**SECTION C**

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

- a. Classify anti-arrhythmic drugs and discuss the role of digitalis in arrhythmia.
- b. Classify anti-coagulants. Discuss mechanism of action and uses of heparin.
- c. Classify diuretics and describe pharmacology of loop diuretics.
- d. Classify H<sub>1</sub> receptor antagonists and give a comparative note on first generation and second generation anti-histaminic.
- e. Outline pharmacology of glucocorticoids.
- f. Describe the principles and applications of bioassay.
- g. Discuss pharmacology of oral contraceptives.

**B PHARM**  
**(SEM V) THEORY EXAMINATION 2022-2023**  
**PHARMACOLOGY-II**

**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. **2 x 10= 20****

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- b. Write mechanism of action and uses of statins.
- c. Give example and uses of plasma volume expanders.
- d. Write mechanism of action and uses of streptokinase.
- e. Write a short note on 5-HT<sub>3</sub> antagonists.
- f. Write uses of prostaglandin analogues.
- g. Enlist hormones regulating plasma calcium level.
- h. How thyroid hormones play a crucial role in metabolism?
- i. What do you mean by Tocolytics?
- j. Highlight the advantages of multiple point bioassay.

**SECTION B**

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

- a. Illustrate pharmacology of anti-hypertensive drugs and design drug therapy for management of hypertension during pregnancy.
- b. Classify NSAIDs and explain pharmacology of aspirin.
- c. Explain pharmacology of oral hypoglycemic agents.

**SECTION C**

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

- a. Classify anti-arrhythmic drugs and discuss the role of digitalis in arrhythmia.
- b. Classify anti-coagulants. Discuss mechanism of action and uses of heparin.
- c. Classify diuretics and describe pharmacology of loop diuretics.
- d. Classify H<sub>1</sub> receptor antagonists and give a comparative note on first generation and second generation anti-histaminic.
- e. Outline pharmacology of glucocorticoids.
- f. Describe the principles and applications of bioassay.
- g. Discuss pharmacology of oral contraceptives.



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**BPHARM**  
**(SEM V) THEORY EXAMINATION 2023-24**  
**PHARMACOLOGY II – THEORY**

TIME: 3 HRS

M.MARKS: 75

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

## SECTION A

- | SECTION A |  | 10 x 2 = 20 |
|-----------|--|-------------|
| 1.        | Attempt all questions in brief.  |             |
| a.        | Describe starling's law.   |             |
| b.        | Give mechanism of action and uses of statins.                                |             |
| c.        | Demonstrate treatment approaches for hypovolemic shock.                      |             |
| d.        | Compare newer H1-antihistaminics with first-generation antihistaminic drugs. |             |
| e.        | Define and classify autocoids.   |             |
| f.        | Investigate the effect of parathormone and calcitonin in calcium balance.    |             |
| g.        | Classify various endocrine glands and their hormones.                        |             |
| h.        | Define tocolytics and classify them.   |             |
| i.        | Give mechanism of colchicine against gout.                                   |             |
| j.        | Give principle and applications of bioassay.                                 |             |

**SECTION B**

- | SECTION B |   | 2 x 10 = 20 |
|-----------|---|-------------|
| 2.        | <b>Attempt any two parts of the following:</b>  |             |
| a.        | Classify anticoagulants. Explain the mechanism, pharmacological action, adverse reactions and interactions of warfarin. |             |
| b.        | Classify NSAIDs. Discuss pharmacology of aspirin.   |             |
| c.        | Illustrate the synthesis, release, regulation and pharmacological actions of thyroid hormone.                           |             |

## **SECTION C**

- 3. Attempt any five parts of the following:**

a. Explain mechanism of action, uses and interactions of digitalis.

b. Define heimatinics. Write a note on maturation factors.

c. Classify oral hypoglycemics. Discuss mechanism and pharmacological actions of sulfonylureas.

d. Enlist diuretic drugs Give mechanism, pharmacological actions and uses of thiazides.

e. Classify antirheumatics. Explain pharmacology of probenecid.

f. Discuss various oral contraceptives with their mechanisms.

g. Discuss any two methods for bioassay of d-tubocurarine.

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**BPHARM**  
**(SEM V) THEORY EXAMINATION 2023-24**  
**PHARMACOLOGY II-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.	Enumerate the antiplatelet drugs.
b.	Define effective refractory period and action potential duration.
c.	Write the mechanism of colchicine.
d.	Define autacoids.
e.	What are the functions of plasma volume expanders?
f.	Write the mechanism of action of Furosemide.
g.	Enlist the antihistaminic drugs with reference to their receptors.
h.	Write the natural anticoagulant present in blood.
i.	Classify fibrinolytics.
j.	Write the treatment of hypertension.

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

a.	Classify NSAIDs. Explain the mechanism, pharmacological action, and uses of Indomethacin.
b.	Write the classification of drugs for CHF. Describe pharmacology of Digoxin in detail.
c.	Describe the hemodynamic features and electrophysiology of heart.

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

a.	Write an exhaustive note on anabolic steroids.
b.	Describe briefly the bioassays of Insulin and Oxytocin.
c.	Explain the substances used as hematinic.
d.	Write the principle and application of bioassay.
e.	Classify anti-diuretics. Write the mechanism of thiazide as anti-diuretic.
f.	Illustrate the mechanism of nitric oxide as antianginal drug with suitable diagram.
g.	Enlist the drugs used for the treatment of different types of shock.



**BPHARM**  
**(SEM V) THEORY EXAMINATION 2024-25**  
**PHARMACOLOGY II – 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 Re-entry and After depolarization.
b.	Classify fibrinolytics.
c.	Which dopamine analogue is used in CHF treatment?
d.	How thiazides act as anti-diuretics?
e.	What are the functions of plasma volume expanders?
f.	Which site of nephron impermeable for water and salts respectively?
g.	Enumerate somatostatin analogues with uses.
h.	Highlight the functions of Calcitonin and PTH.
i.	Enlist the types of bioassays.
j.	Which enzyme converts testosterone into estrogen?

**SECTION B**

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

a.	Classify anti-arrhythmic drugs. Explain the pharmacology of Quinidine.
b.	Write the classification of diuretics. Explain the MOA, pharmacological actions, and adverse effects of loop diuretics.
c.	Classify antithyroid drugs. Discuss synthesis, release, and pharmacological actions of T3 and T4.

**SECTION C**

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

a.	Write an exhaustive note on oral contraceptives.
b.	Briefly describe the cardiac electrophysiology.
c.	Explain the principle and applications of bioassay.
d.	Describe the drugs used for treatment of shock.
e.	Classify anticoagulants. Discuss the pharmacology of Warfarin.
f.	Write a note on hematinic.
g.	Discuss the pharmacology of colchicine.



Paper id: 250712

Printed Page: 1 of 1  
Subject Code: BP503T

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**BPHARM**  
**(SEM V) THEORY EXAMINATION 2024-25**  
**PHARMACOLOGY II – 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.	What is the mechanism of action of insulin?
b.	What is the primary effect of beta blockers on the heart?
c.	Give example and uses of plasma volume expanders.
d.	Write the mechanism of action of enalapril.
e.	What are fibrinolytics? Give its examples.
f.	What are NSAIDs? Name two selective COX-2 inhibitors.
g.	Classify drugs used in gout.
h.	Write the roles of Thromboxanes.
i.	What is Substance P?
j.	What is the primary mechanism of action of corticosteroids?

**SECTION B**

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

a.	Classify anti-arrhythmic drugs. Explain the mechanism of action of quinidine.
b.	Enlist Diuretic drugs. Give mechanism, Pharmacological action and uses of thiazides.
c.	Classify H1 receptor antagonists and give a comparative note on first generation and second generation anti-histaminic.

**SECTION C**

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

a.	Explain the role of prostaglandins.
b.	Explain the Pharmacology of anti-rheumatic drugs.
c.	Explain the principle and applications of bioassay.
d.	Write a detailed note on oral contraceptives.
e.	Discuss the pharmacology of estrogens and progesterone with mechanisms of action.
f.	Classify anti-coagulants. Discuss mechanism of action and uses of heparin.
g.	Describe the mechanism of action, side effects and uses of atorvastatin.