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**B PHARM**  
**(SEM V) THEORY EXAMINATION 2021-22**  
**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.	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 x 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 x 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.



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**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.



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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.



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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.	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

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

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: 5 x 7 = 35

a.	Explain mechanism of action, uses and interactions of digitalis.
b.	Define hematinics. 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 anti-rheumatics. Explain pharmacology of probenecid.
f.	Discuss various oral contraceptives with their mechanisms.
g.	Discuss any two methods for bioassay of d-tubocurarine.