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B. PHARM
(SEM V) THEORY EXAMINATION 2019-20
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. Enlist antihypertensive drugs contraindicated during pregnancy.
- b. Define Haematinics with suitable example.
- c. Write about therapeutic indications for Atrovastatin.
- d. Define Plasma volume expanders with suitable examples.
- e. Define Anabolic Steroids.
- f. Define Bioassay and enlist its limitations.
- g. Write functions of Glucagon.
- h. Write physiological role of Substance P.
- i. Write pharmacotherapy for thyroid storm.
- j. Define Gout and enlist at least two drugs for its management.

SECTION B

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

- a. Define Autacoids. Classify them and discuss the physiological role of histamine.
- b. Write a detailed note on Oral Contraceptives.
- c. Explain in detail hemodynamic and electrophysiology of human heart.

SECTION C

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

- a. Write a note on hormones regulating plasma Calcium levels.
- b. Write pharmacology of NSAIDs.
- c. Write pharmacology of Thyroid hormone inhibitors.
- d. Write pharmacology of drugs acting on Uterus.
- e. Classify antihypertensive drugs and write a detailed note on calcium channel blockers.
- f. Write pharmacology of Coagulants.
- g. Write a note on drugs used in therapy of shock.



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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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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.

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-HT₃ 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 H₁ 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**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.



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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.	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.



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BPHARM
(SEM. V) THEORY EXAMINATION 2025-26
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 hypertension.
b.	Name any two anticoagulant drugs.
c.	Write the name of any two broad-spectrum antibiotics.
d.	What are antacids?
e.	Write the name of two drugs used in peptic ulcer.
f.	Name two drugs used in vomiting.
g.	Define angina pectoris.
h.	What is lidocaine used for?
i.	What is the mechanism of action of statins?
j.	Write one use of warfarin.

SECTION B

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

2 x 10 = 20

a.	Classify antihyperlipidemic drugs and explain the mechanism of action and adverse effects of statins
b.	Classify non-steroidal anti-inflammatory drugs (NSAIDs) and explain their mechanism of action, therapeutic uses, and adverse effects.
c.	Classify diuretics and explain the mechanism of action, uses, and adverse effects of different classes.

SECTION C

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

7 x 5 = 35

a.	Define autacoids and explain their classification and physiological role.
b.	Classify drugs used in gout and explain the mechanism of action of allopurinol and colchicine.
c.	Write a short note on shock and its management.
d.	Discuss the pharmacological management of gout.
e.	Explain the role of antidiuretic hormone.
f.	Write a brief note on calcium channel blockers.
g.	Discuss the mechanism of action and uses of digoxin.