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Roll Number \_\_\_\_\_ (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	5 <sup>th</sup>
Subject	Pharmacology-II
Subject Code	BP503T
Paper ID	76788
Time	3Hours
Maximum Marks	75

**Instructions to Candidates:** No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

\*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL**.

\*\*Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO**.

\*\*\* Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

**Section A**

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	What is the significance of Bioassay?
ii.	Name class III anti-arrhythmic agents.
iii.	What is the use of Alteplase?
iv.	Define Fenofibrate. Where it is used?
v.	What is sequential regimen of oral contraceptive pill?
vi.	What are plasma volume expanders? Give two examples.
vii.	How aspirin is useful as anti-platelet agents?
viii.	What are anabolic steroids? Give two examples.
ix.	Write the use of Statins.
x.	What are Leukotrienes? Give examples.

**Section B**

(2 X 10 = 20)

2.	Classify oral hypoglycaemic agents and discuss mechanism of action and side effects of sulphonyl ureas.
3.	Write an exhaustive note on pharmacology of anti-anginal drugs.
4.	What are oral contraceptives? Indicate various oral pills and discuss mechanism of action of oral contraceptives.

**Section C**

(7 X 5 = 35)

5.	Add a brief note on drug therapy of shock.
6.	Write a note on therapeutic uses and side effects of corticosteroids.
7.	Classify anti-thyroid drugs. Explain the mechanism of action of thioureas.
8.	Give an account note on HMG-CoA reductase inhibitors as anti-hyperlipidemic agents.
9.	What are Autocoids? Write a note on bradykinin and substance P.
10.	Explain bioassay of insulin.
11.	Explain the mechanism of action of heparin.
12.	How nitrates exert their vasodilatory and anti-anginal actions?
13.	Write a note on NSAIDS with suitable examples.

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**Section A**

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Write two examples of HMG-COA Reductase inhibitors.
ii.	What are Uterine Stimulants?
iii.	Write use of Carbimazole.
iv.	Write down the side effects of Azathioprine.
v.	Write uses of Diuretics.
vi.	Define anticoagulants with example.
vii.	What are side effects of ACE inhibitors?
viii.	Name any two H1 antagonist agents.
ix.	Write name of two calcium channel blockers.
x.	Explain Matching Bioassay.

**Section B**

(2 X 10 = 20)

2.	Classify Antihypertensive agents with example. Discuss pharmacology of Diuretics and Vasodilators in treatment of hypertension.
3.	Define and classify NSAIDS. Write mechanism of action, adverse effects and uses of Paracetamol and Acelofenac.
4.	Define and classify oral hypoglycaemic drugs. Explain the pharmacology of Tolbutamide.

**Section C**

(7 X 5 = 35)

5.	Write a note on Coagulants.
6.	Write about Oral Contraceptives.
7.	Describe the applications and principal of Bioassay.
8.	Describe the mechanism of action, side effects and uses of Aspirin.
9.	Write a note on potassium sparing Diuretics.
10.	Describe DMARDs.
11.	Write a short note on Plasma Expanders.
12.	Discuss mechanism of action of Nitrites and Nitrates.
13.	Discuss pharmacology and uses of Digoxin.

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**Section A****(10 X 2 = 20)**

1. Give very short answers to the followings (2 marks each):

i.	Enlist the two antihypertensive drugs used during the pregnancy.
ii.	Write the mode of action of atorvastatin.
iii.	Write the role of substance-P in the pain pathway.
iv.	Write the mechanism action of sumatriptan.
v.	Define oxytocics with two examples.
vi.	Define anabolic steroids.
vii.	Write the indication of SERMs.
viii.	What are indications of urokinase?
ix.	Write two examples of glycoprotein receptor antagonists.
x.	Write the mode of action of Digoxin.

**Section B****(2 X 10 = 20)**

2.	Classify autacoids. Discuss the physiological role of 5-HT and their related drugs.
3.	Classify antihypertensive drugs. Mention mode of action of telmisartan.
4.	Discuss the classification and pharmacology of NSAIDs.

**Section C****(7 X 5 = 35)**

5.	Write a short note on plasma volume expander and mention clinical indication of them.
6.	Write a note on anti-gout drugs.
7.	Write a brief note on Fibrinolytics.
8.	Write a short note on drugs act on the uterus.
9.	Classify diuretic and add note on potassium sparing diuretic.
10.	Enumerate principal and application of bioassay.
11.	Add brief note on oral hypoglycaemic drugs.
12.	Classify anti-thyroid drugs and mention the difference between propylthiouracil and carbimazole.
13.	Write short notes on oral contraceptive drugs.

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**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Enlist two drugs acts on renin-angiotensin-aldosterone system.
ii.	Write mechanism of action of colchicine.
iii.	Write two applications of bioassay.
iv.	Enlist hormones secretes from anterior pituitary hormones.
v.	Write pharmacological significance of 5HT <sub>3</sub> receptor antagonist.
vi.	Write two indications of anabolic steroids.
vii.	Write two functions of incretin.
viii.	Define ecobolic drugs.
ix.	Write adverse effect of oral contraceptive drugs.
x.	Write two indication of diuretic drug.

**Section- B (2X10=20)**

2.	Classify antihypertensive drugs. Give the pharmacology of olmesartan.
3.	Classify NSAIDS. Explain about the various pharmacological actions of Aspirin.
4.	Enlist oral hypoglycaemic drugs. Explain pharmacology of DPP-4 inhibitors.

**Section- C (7X5=35)**

5.	Write a short note on plasma volume expanders.
6.	Discuss the bioassay of oxytocin.
7.	Discuss the detailed pharmacology of statins.
8.	Write short note on thyroid inhibitors.
9.	Write short note on cardiac glycosides.
10.	Classify autacoids. Mention in brief physiological functions of histamine.
11.	Describe the pharmacology of oxytocic agents
12.	Add brief note on anti-arrhythmic drugs.
13.	Write a brief note on anti-platelet drugs.

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**Section A**

**(10 X 2 = 20)**

1.	Give very short answers to the followings-
i.	What are plasma volume expanders? Give two examples.
ii.	Write mechanism of action of statins.
iii.	What are function of substance P.
iv.	Write two uses of antidiuretics.
v.	What are uses of calcitonin?
vi.	What is the significance of bioassay?
vii.	Name two class II anti-arrhythmic agents.
viii.	What are parathormones? Give examples.
ix.	What are autocoids? Give example.
x.	What is sequential regimen of oral contraceptive pill?

**Section B**

**(2 X 10 = 20)**

2.	Write an exhaustive note on pharmacology of anti-arrhythmic drugs.
3.	Give a brief note on anti-coagulants.
4.	Classify oral hypoglycaemic agents and discuss mechanism of action and side effects of sulphonyl ureas.

**Section C**

**(7 X 5 = 35)**

5.	What are the drugs used in anaphylactic shock? Explain their rationale.
6.	What is CHF? Discuss mechanism of action of digitalis in CHF.
7.	Explain the principle and procedure behind bioassay of oxytocin and digitalis.
8.	Classify anti-thyroid drugs. Explain the mechanism of action of thioureas.
9.	Give an account note on HMG-CoA reductase inhibitors.
10.	Write the classification, mechanism of action and therapeutic applications of NSAIDS.
11.	Write a note on therapeutic uses and side effects of corticosteroids.
12.	Classify diuretics. Discuss the mechanism of actions and uses of thiazide diuretics.
13.	Explain the regulation and action of female sex hormones.

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\*\*\*Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any SEVEN.

**Section A**

(10 X 2 = 20)

1.	Give very short answers to the following:
i.	Write the mode of action of digoxin.
ii.	Write two clinical applications of anabolic steroids.
iii.	Write down the mechanism of action of telmisartan.
iv.	Define bioassay and give its type.
v.	Write down the mechanism of action of furosemide diuretics.
vi.	Write the mechanism of action of xanthine oxidase inhibitors.
vii.	What are the indications of urokinase?
viii.	Write the mode of action of carbimazole.
ix.	Enlist drug used in therapy of shock.
x.	Enlist anti-hyperlipidemic drugs.

**Section B**

(2 X 10 = 20)

2.	Classify diuretic. Write down the pharmacology of loop and potassium-sparing diuretics.
3.	Classify antihypertensive drugs. Enumerate the pharmacology of ACE inhibitors.
4.	Discuss the classification and pharmacology of NSAIDs.

**Section C**

(7 X 5 = 35)

5.	Write a note on autacoid.
6.	Write a brief note on fibrinolytics.
7.	Write a short note on oral hypoglycaemic drugs.
8.	Classify anti-thyroid drugs. Give a detailed note on any one drug.
9.	Discuss drug used in congestive heart failure.
10.	Write a note on thyroid hormones –analogues and their inhibitors.
11.	Discuss the pharmacology of the drug act on the uterus.
12.	Write a note on the bioassay of insulin and histamine.
13.	Write a brief note on leukotrienes and write about the clinical significance.

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**Section- A**

(10X2=20)

1.	Give very short answers to the followings:
i.	How does digoxin affect the eyes negatively?
ii.	What is the illness Paget's?
iii.	Describe how prostaglandin works.
iv.	Describe radioimmuno assay.
v.	What connection does Laplace have?
vi.	Spell out the roles those autacoids play.
vii.	What is carpal tunnel syndrome?
viii.	Explain the principle of vasopressin bioassay.
ix.	What are the toxic effects of iron?
x.	What is the purpose of sulphate protamine?

**Section- B**

(2X10=20)

2.	Classify oral hypoglycemia and explain the pharmacology of tolbutamide.
3.	Write a definition, categorization, and pharmacology of anti-hypertensive medications.
4.	Classify diuretics with examples. Describe the mechanism of action, potential side effects, and common uses of acetazolamide.

**Section- C**

(7X5=35)

5.	Detail the process used for the biological assay of oxytocin.
6.	Write a note on plasma volume expanders.
7.	Enumerate the pharmacology of calcium channel blockers.
8.	Write about the pharmacology of cetirizine and discuss antihistaminic medications.
9.	Write short note on oxytocic.
10.	Explain the role of vitamin K in the coagulation process. Discuss the pharmacological properties of fibrinogen.
11.	Classify autacoids. Discuss the pharmacology of prostaglandin.
12.	Write a note on oral contraceptive.
13.	Explain the pharmacology of cardiac glycosides

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\*\*\*Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Discuss the therapeutic use of loop diuretics.
ii.	Define excitability in hemodynamics.
iii.	Define substance P.
iv.	Therapeutic uses of prostaglandin analogues.
v.	Write the two functions of aldosterone.
vi.	Write sources of folic acid.
vii.	Define bioassay and enlist its types.
viii.	Physiological functions of ACTH and corticosteroids.
ix.	What is tetralogy of fallot?
x.	Describe the graded bioassay.

**Section- B (2X10=20)**

2.	Classify anti-gout drugs. Explain the pharmacology of allopurinol.
3.	Define and classify anti-thyroid drugs. Explain the pharmacology of any two classes.
4.	Classify diuretics with examples. Explain the mechanism of action, adverse effects and uses of thiazide diuretics.

**Section- C (7X5=35)**

5.	Classify oral hypoglycemic, explain the pharmacology of tolbutamide.
6.	Explain anti-coagulants, classify them, and write the pharmacology of heparin.
7.	Explain the synthesis, metabolism and degradation of histamine.
8.	Describe the role of $\beta$ -adrenergic blockers in hypertension.
9.	Write the therapeutic uses of plasma volume expanders.
10.	Write a note on pharmacology of anti-rheumatic drugs
11.	Discuss corticosteroids; write the mechanism of action of prednisolone.
12.	Explain the role of ACE inhibitors in CHF.
13.	Discuss the bioassay of digitalis.

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- \*\*\*Section- C consists of nine questions, each carrying 5 marks (Short Answer Type); Attempt any seven.

**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Write about the emergency treatment of angina.
ii.	Define rhythm and give its sequence of flow.
iii.	State the concept of coronary steal phenomenon.
iv.	What is the effective refractory period?
v.	Define eicosanoids and give examples.
vi.	Give the steps for the synthesis of TXA <sub>2</sub> .
vii.	Give the regulation of thyroxine release.
viii.	Mention four preparations of insulin.
ix.	Define androgens and give examples.
x.	What do you mean by Substance P?

**Section- B (2X10=20)**

2.	Classify antihyperlipidaemic agents and give their mechanisms of action. Discuss the pharmacology of statins.
3.	Discuss anterior pituitary hormones and the pharmacology of their analogues.
4.	Classify hypoglycemic agents. Discuss oral hypoglycemic agents in detail.

**Section- C (7X5=35)**

5.	Write a brief note on anti-anginal drugs and their mechanisms of action.
6.	List common anticoagulants and provide an account of the pharmacology of heparins.
7.	Provide the classification of diuretics along with their clinical uses and adverse effects.
8.	Write the pharmacology of prostaglandin derivatives.
9.	Mention major NSAIDs and outline the mechanism of action of aspirin.
10.	State the role of DMARDs in the treatment of rheumatoid arthritis.
11.	Write the classification of 5-HT receptors and their antagonists with pharmacological relevance.
12.	Highlight the pharmacological properties and medical uses of anabolic steroids.
13.	List different types of bioassays and write a note on the bioassay of digitalis.

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**Section- A (10X2=20)**

1.	Give very short answers to the followings
i.	Name any two antihypertensive drugs that are considered safe during pregnancy.
ii.	What is the effect of statins on LDL receptors?
iii.	How does Substance-P interact with NK1 receptors?
iv.	Why is sumatriptan contraindicated in patients with coronary artery disease?
v.	List clinical conditions where oxytocics are used in obstetrics.
vi.	Mention two adverse effects of anabolic steroids.
vii.	Give two examples of commonly used selective estrogen receptor modulators (SERMs) drugs.
viii.	Explain how urokinase promotes clot dissolution.
ix.	Write two adverse effects of glycoprotein IIb/IIIa inhibitors.
x.	How does digoxin increase cardiac contractility?

**Section- B (2X10=20)**

2.	Enumerate autacoid groups and outline the primary physiological actions of histamine.
3.	List antihypertensive categories and describe the mechanistic action of amlodipine.
4.	Classify the NSAIDs and explain the core mechanism of aspirin.

**Section- C (7X5=35)**

5.	Classify diuretics and add a note on potassium-sparing agents.
6.	Write a short note on uterine-acting drugs.
7.	State the principles of bioassay and its uses.
8.	Write briefly on fibrinolytic drugs.
9.	Give a short note on plasma volume expanders and their indications.
10.	Classify anti-thyroid drugs and differentiate propylthiouracil from carbimazole.
11.	Write a brief note on oral hypoglycemics.
12.	Write short notes on oral contraceptives.
13.	Give a short note on anti-gout drugs.

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