

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 0321]

MARCH 2021

Sub. Code: 3118

(OCTOBER 2020 EXAM SESSION)

M.D. (SIDDHA) DEGREE EXAMINATION

THIRD YEAR

BRANCH II - GUNAPADAM

PAPER IV – ESSENTIALS IN PHARMACOLOGY

Q.P. Code : 323118

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Bioassay and describe in detail about the principles and methods of bioassay by giving suitable examples.
2. Classify Antiepileptics and explain the pharmacological actions and therapeutic uses of Phenytoin with suitable examples.

II. Write notes on:

(10 x 6 = 60)

1. Write briefly about the different sources of drugs with suitable examples.
2. Write a note on the advantages and disadvantages of Intravenous drug administration.
3. Write a note on the following:
 - a) Bioavailability.
 - b) Enzymatic receptors.
4. Discuss briefly about adverse drug reactions giving examples.
5. What are the different techniques of blood collection from animals?
6. Discuss any two methods of evaluation of anti-hypertensive agents.
7. Write about any two methods of evaluation of anti-diarrhoeal agents.
8. Write down any two methods used to evaluate anti-anxiety agents.
9. Discuss about the limitations of animal studies in the field of pharmacology.
10. Write a short note on the following:
 - a) Chronic toxicity studies.
 - b) Cohort study.

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[MD(SIDDHA) 1221]

**DECEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 3118

**M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER IV – ESSENTIALS IN PHARMACOLOGY
Q.P. Code : 323118**

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the phases of drug metabolism and factors affecting the drug metabolism?
2. Describe the importance of following in experimental pharmacology.
 - a) Streptazotocin treated rats.
 - b) Hypodynamic heart.
 - c) Pylorus ligated rats.
 - d) Ames test.
 - e) 3Rs.

II. Write notes on:

(10 x 6 = 60)

1. Classify beta blockers. Mention the cardiovascular and non-cardiovascular uses of beta blockers?
2. Write the mechanism of action of Benzodiaepines and barbiturates?
3. Pharmacotherapy of Bronchial asthma?
4. Classification of anti-arrythmic agents?
5. Chemotherapy of Tuberculosis?
6. Write a note on spontaneous hypertensive rats?
7. Write the importance of Tracheal chain preparation of guinea pig in experimental pharmacology?
8. Discuss the importance of following instruments in pharmacological screening methods
 - a) Kymograph.
 - b) Inclined plate.
 - c) Water maze.
9. Write one method to screen drugs effective in grandmal and petitmal epilepsy?
10. Explain the following terms - a) Euthanasia b) Coprophagy.

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[MD(SIDDHA) 0822]

**AUGUST 2022
(MAY 2022 EXAM SESSION)**

Sub. Code: 3118

**M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER IV – ESSENTIALS IN PHARMACOLOGY**

Q.P. Code : 323118

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. What are the various routes of drug administration? Discuss in detail about the advantages and disadvantages of enteral and parenteral routes.
2. Write detailed principles and procedures of screening of Anti-hypertensive agents.

II. Write notes on:

(10 x 6 = 60)

1. Write a brief note on Volume of drug distribution.
2. Explain NSAID induced ulceration in rats.
3. Discuss the role of transgenic animal models on preclinical screening methods.
4. Write a note on screening method for anti-fertility agents.
5. Write note on Microculture tetrazolium test (MTT).
6. Write the mechanism of action and adverse effects of major tranquilizers.
7. Write a note on oral hypoglycemic agents.
8. Name three non-sedative H₁ blockers and mention their therapeutic implications.
9. Write a note on organo phosphorous poisoning.
10. Name three angiotensin antagonist and write their mechanism of action.

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[MD(SIDDHA) 1122]

**NOVEMBER 2022
(OCTOBER 2022 EXAM SESSION)**

Sub. Code: 3118

**M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER IV – ESSENTIALS IN PHARMACOLOGY
Q.P. Code : 323118**

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Classify anti-asthmatic agents and write briefly about the pharmacological actions of bronchodilators and how will you evaluate anti-asthmatic drugs discuss.
2. Define Autocoids and classify elaborately the Anti-histamines and outline the therapeutic uses of Antihistamines.

II. Write notes on:

(10 x 6 = 60)

1. What is the role of Pharmacovigilance activity in adverse drug monitoring?
2. Enumerate any five factors that affect the drug action giving suitable examples.
3. Write a short note on the following:
 - a) Plasma half-life.
 - b) Drug response curve.
4. Write down the therapeutic uses of Calcium channel blockers.
5. Write a note on the following:
 - a) Water wheel method.
 - b) Vogel lick-conflict.
6. Write briefly about the therapeutic uses of
 - a) Quinidine.
 - b) Procainamide.
7. Write a note on the following:
 - a) Castor oil induced diarrhea.
 - b) Lipschitz Test.
8. Write a brief note on Proton pump inhibitors and mention its therapeutic uses.
9. Write about prokinetics and its pharmacological actions and therapeutic uses.
10. Write a note on the following:
 - a) Mast cell stabilizers.
 - b) Folic acid antagonist.

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[MD(SIDDHA) 0224]

**FEBRUARY 2024
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 3118

**M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER IV – ESSENTIALS IN PHARMACOLOGY**

Q.P. Code: 323118

Time : Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write briefly about NSAIDS.
2. Various technique of Blood collections from animals.

II. Write notes on:

(10 x 6 = 60)

1. Write notes on the following methods:
 - i. Intra dermal method.
 - ii. Hind Paw method.
2. Write briefly on drugs for Parkinsonism.
3. Histamine and acetylcholine induced Bronchoconstriction in Guinea pig.
4. Alloxan induced test model.
5. H₂ Receptor Blockers.
6. Write about Pro kinetic agents.
7. Write about Anti anxiety drugs.
8. MAO inhibitors.
9. Write about beta adrenergic blockers.
10. Write about Drug formulation and dosage forms.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 0225]

FEBRUARY 2025

Sub. Code: 3118

**M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER IV – ESSENTIALS IN PHARMACOLOGY**

Q.P. Code: 323118

Time : Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about Biotransformation.
2. Routes of Drug Administration in Laboratory animals.

II. Write notes on:

(10 x 6 = 60)

1. Write briefly on drug Interactions.
2. Write a note on anti coagulants.
3. Streptozotocin induced model.
4. Pyloric ligation induced gastric ulcer model.
5. Write about Uterine Relaxants.
6. Write about Anti thyroid drugs.
7. Write about Opioid Analgesics.
8. Loops Diuretics.
9. Write about Trans dermal Administration methods.
10. Define Bioavailability.
