

BACHELOR IN PROSTHETICS AND ORTHOTICS
(New Syllabus 2017-2018)

SECOND YEAR

PAPER VIII – PHARMACOLOGY

Q.P. Code: 802468

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Write about the different routes of administration of drugs. Mention the advantages and disadvantages.
2. Write about sedative and hypnotic drugs commonly used and their uses.
3. Classify Anticholinergics. Write the pharmacological action, uses and adverse effects of Atropine.

II. Write notes on:

(8 x 5 = 40)

1. What are the factors modifying drug response?
2. What are the adverse effects of corticosteroids?
3. What are non steroidal anti inflammatory drugs?
4. Role of insulin in treatment of diabetes.
5. Why are inhalers used in treatment of lung disorders?
6. What is Spasticity? How can it be reduced with medications?
7. Write about the classification of drugs.
8. Treatment of postural hypotension in elderly using drugs.

III. Short answers on:

(10 x 3 = 30)

1. Write about the uses of morphine and when it can be used?
2. What are antiepileptic drugs?
3. Write about Pharmacokinetics.
4. Explain about Oral anti diabetic drugs.
5. Role of Immuno suppressants.
6. How to treat anxiety in patients with drugs?
7. Treatment of obstructive airway disease.
8. Treatment of diarrhea.
9. Write about treatment of myopathies.
10. Role of muscle relaxants.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2468

(AUGUST 2020 EXAM SESSION)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018)

PAPER VIII – PHARMACOLOGY

Q.P. Code : 802468

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Explain the various routes of drug administration in detail with example.
2. What drugs are used in elderly patients to treat dementia and hypotension?
3. List different drugs used in the management of diabetes mellitus and their role.

II. Write notes on:

(8 x 5 = 40)

1. What is drug toxicity?
2. Can drugs cause allergy? Explain.
3. How can drugs be classified?
4. What is aerosol therapy?
5. What are the different sources of drugs?
6. What is Acetaminophen? When is it used?
7. Drugs used in the treatment of depression.
8. Treatment of constipation.

III. Short answers on:

(10 x 3 = 30)

1. Drugs used in treatment of Parkinson's disease.
2. Write about diazepam.
3. What is drug antagonism? Explain.
4. Write about the metabolism of drugs.
5. Medical treatment of gout.
6. List adverse effects of drugs.
7. Why does resistance to drugs occur?
8. Explain about peripheral muscle relaxants.
9. When is aspirin used?
10. Drugs used to change the mood of a patient.

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[AHS 0222]

**FEBRUARY 2022
(AUGUST 2021 EXAM SESSION)**

Sub. Code: 2468

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018)
PAPER VIII – PHARMACOLOGY
Q.P. Code : 802468**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: (3 x 10 = 30)

1. Classify Non-steroidal anti-inflammatory drugs. Write in detail about mechanism of action, uses and adverse effects of Aspirin.
2. Classify anti-hypertensive drugs. Discuss the adverse effects and therapeutic uses of Angiotensin Converting Enzyme (ACE) inhibitors.
3. Classify corticosteroids. Write in detail about mechanism of action, uses and adverse effects of corticosteroids.

II. Write notes on: (8 x 5 = 40)

1. Parenteral route of drug administration.
2. Write short note on Teratogenicity.
3. Management of organo-phosphorus poisoning.
4. Write short note on Adrenaline.
5. Anti-thyroid drugs.
6. Broad spectrum antibiotics.
7. Pre-anesthetic medication.
8. Discuss the mechanism of action, pharmacokinetics, uses and adverse effects of Proton pump inhibitors.

III. Short answers on: (10 x 3 = 30)

1. Define prodrug and explain it with examples.
2. Enumerate 2nd generation H₁ antihistamines and their uses. Discuss the difference between 1st and 2nd generation antihistamines.
3. Rationale of combining L-Dopa and Carbidopa in the treatment of Parkinsonism.
4. List the drugs used for constipation.
5. Mechanism of action and adverse effects of Metformin.
6. Enumerate and discuss the role of inhaled steroids in bronchial asthma.
7. Pharmacotherapy of Glaucoma.
8. Discuss the uses and adverse effects of local anesthetics.
9. List the anti-anginal drugs.
10. Cotrimoxazole.

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[AHS 0423]

APRIL 2023

Sub. Code: 2468

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR - (Regulation 2017-2018 onwards)

PAPER VIII – PHARMACOLOGY

Q.P. Code: 802468

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I Elaborate on:

(3 x 10 = 30)

1. Classify drugs used in treatment of Bronchial asthma. Describe in detail about the Inhalational Steroids.
2. Explain in detail the mechanism of action, adverse effects, uses of Non Steroidal Anti Inflammatory Drugs.
2. Classify Oral Hypoglycaemic agents. Describe the mechanism of action, adverse effects and uses of Metformin.

II. Write notes on:

(8 x 5 = 40)

1. Levodopa.
2. Role of Beta blockers in angina.
3. Pharmacovigilance.
4. Second generation Antihistaminics.
5. Management of Chronic gout.
6. Explain in detail about Skeletal Muscle Relaxants.
7. Drugs for GERD.
8. List the routes of drug administration.

III. Short answers on:

(10 x 3 = 30)

1. Mechanism of Drug resistance.
2. Enlist four Antipsychotic agents.
3. What is drug potency and drug efficacy?
4. List the uses and adverse drug reactions of Diazepam.
5. Treatment of urinary incontinence in elderly.
6. List four uses of Antidepressant drugs.
7. Anaphylactic shock.
8. Serotonin syndrome
9. Management of Myasthenia gravis.
10. Define Bioavailability.

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[AHS 0424]

APRIL 2024

Sub. Code: 2468

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR - (Regulation 2017-2018 onwards)

PAPER VIII – PHARMACOLOGY

Q.P. Code: 802468

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is Aerosol Therapy? List diseases for which Aerosol Therapy is given. What are the drugs that can be used through Aerosol Route?
2. Write about Non Steroidal Anti Inflammatory drugs and their uses.
3. Role of different drugs in the treatment of Diabetes.

II. Write notes on:

(8 x 5 = 40)

1. Metabolism and Excretion of drugs.
2. Pharmacological action of sedatives and hypnotics.
3. Adverse drug effects.
4. Drug resistance with examples.
5. Treatment of arthritis with medicines.
6. Explain about medicines used as Skeletal Muscle Relaxants.
7. What is the treatment of Peptic Ulcer disease?
8. List the routes of Drug Administration.

III. Short answers on:

(10 x 3 = 30)

1. Oral Rehydration Solution.
2. List the uses of Aspirin.
3. What is Drug potency?
4. List uses and adverse drug reactions of Diazepam.
5. Treatment of Urinary incontinence in elderly.
6. Use of Antidepressant drugs.
7. Can drugs be dangerous? Explain with example.
8. What is the treatment for scleroderma?
9. Write about Medical treatment of Myasthenia gravis.
10. Write about Pharmacokinetics.

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[AHS 1125]

NOVEMBER 2025

Sub. Code: 2468

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR - (Regulation 2017-2018 onwards)

PAPER VIII – PHARMACOLOGY

Q.P. Code: 802468

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Classify Non-steroidal anti-inflammatory drugs. Write in detail about mechanism of action, uses and adverse effects of Aspirin.
2. Classify drugs used for Peptic ulcer. Write in detail about mechanism of action, uses and adverse effects of Proton pump inhibitors.
3. Classify Anti-tubercular drugs. Write in detail about mechanism of action, uses and adverse effects of first line Anti-tubercular drugs.

II. Write notes on: **(8 x 5 = 40)**

1. Fixed dose combinations with examples.
2. Transdermal therapeutic system with examples. Mention its advantages and disadvantages.
3. Pharmacotherapy of Glaucoma.
4. Inhalational Corticosteroids.
5. Thiazide diuretics.
6. Therapeutic uses of adrenergic drugs.
7. Mechanism of action and therapeutic uses of Amlodipine.
8. Therapeutic uses of Morphine.

III. Short answers on: **(10 x 3 = 30)**

1. Propofol.
2. Rationale of combining L-Dopa and Carbidopa in the treatment of Parkinsonism.
3. Discuss the clinical significance of plasma protein binding with examples.
4. Cotrimoxazole.
5. Oral rehydration solution.
6. Metformin.
7. Pharmacovigilance.
8. Second generation Anti Histamines.
9. Management of OPC Poisoning.
10. Oral anticoagulants.
