

Pharm. D II Year (6 YDC) (Main & Backlog) Examination, September 2023

Subject: Pathophysiology

Time: 3 Hours

Max.Marks:70

PART-A

Note: Answer all the questions

(10 x 2 = 20 Marks)

1. Define the term Metaplasia Hypertrophy.
2. Draw a neat labelled diagram of B-Lymphocytes.
3. Write a note on Glycogen storage disease.
4. What are the different biological effects of radiation?
5. Write the etiological factors involved in Cell Injury.
6. Write the clinical manifestations of Acute Renal Failure.
7. Write the deficiency symptoms of Vitamin C and Vitamin D.
8. Discuss Clinical Complications of Obesity.
9. Briefly write about components of immune system.
10. Write the pathogenesis of chronic bronchitis.

PART-B

Note: Answer any five questions

(5 x 10 = 50 Marks)

11. Explain the Cellular and vascular events of Acute Inflammation.
12. Explain in detail Type I and Type II hypersensitivity reactions.
13. Explain mechanism of Invasion and Metastasis in Neoplastic.
14. Explain Etiopathogenesis of SHOCK.
15. Explain etiopathogenesis of SIDE.
16. (a) Write the pathophysiology of Asthma.
(b) Explain in detail about p53 tumor suppressor gene.
17. (a) Explain the Etiopathogenesis of Hypertension.
(b) Explain different type of Stroke.
18. Write a note on types of Cell Death? Explain Mechanisms involved in Cell injury.

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FACULTY OF PHARMACY

Pharm. D II Year (6 YDC) (Main & Backlog) Examination, September 2023

Subject: Community Pharmacy

Time: 3 Hours

Max. Marks: 70

PART-A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define community pharmacy.
2. Write a note on Schedule N.
3. Define a prescription.
4. Define EOQ.
5. Define pharmaceutical care.
6. Define patient counselling.
7. Mention the symptoms of gonorrhoea and typhoid.
8. Define OTC drugs.
9. Name any four commonly occurring communicable diseases
10. Define the concept of essential drugs.

PART-B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

11. Describe the role of community pharmacist in dispensing drugs. Explain different types of community pharmacy outlets.
12. What are the different factors affecting medical adherence. Describe the role of pharmacist in improving the medical adherence.
13. What are the various parts of the prescription? Explain.
14. What is ABC analysis? Explain in detail.
15. What are the roles and responsibilities of a community pharmacist in providing pharmaceutical care?
16. Explain various stages of patient counselling? How patient counselling done for the special population group.
17. Explain the role of community pharmacists in health promotion activities in community.
18. Explain in detail various ethics a pharmacist must follow for the practice of pharmacy.

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FACULTY OF PHARMACY

Pharm. D II Year (6 YDC) (Main & Backlog) Examination, September 2023
Subject: Pharmacognosy and Phyto Pharmaceuticals

Time: 3 Hours

Max. Marks: 70

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define (a) Pharmacognosy (b) Crude drugs
2. Note on Ergastic Substances
3. Write a note on Cellulose
4. Powder microscopy of Cinchona
5. write the sources, active constituents and uses of Cotton
6. Write the difference between Fixed Oil and Volatile oil
7. Write the chemical test for Starch and Flavonoids
8. Biological Importance of Protein
9. write the sources, active constituents and uses of Honey
10. write the sources, active constituents and uses of Ginger

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

11. (a) Enumerate the classification of crude drugs, explain Chemical Classification of Crude drugs.
(b) Briefly Write the Cultivation and collection of Senna
12. Define and classify Carbohydrates, write the source, active constituents and uses of Agar, Tragacanth gum and Starch
13. (a) Define and classify Lipids with examples.
(b) Write sources, active constituents and uses of Beeswax and Olive oil
14. Write a Short note on (i) Plant growth regulator (ii) Natural Pesticides
15. (a) Define and Classify Volatile oil, Explain one method of Extraction of Volatile oil
(b) Write the sources, active constituents and uses of Clove
16. Define Adulteration and Types for Adulteration with examples.
17. (a) Define and classify Protein, write method of Preparation and uses of Gelatine
(b) Write the IP Methods for Analysis of Oil and Fats
18. Explain in brief exo and endo factors affecting cultivation of crude drug.

FACULTY OF PHARMACY

Pharma. D (6 YDC) II Year (Main & Backlog) Examination, October 2023

Subject: Pharmacotherapeutics - I

Time: 3 Hours

Max. Marks: 70

PART – A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define and enlist macro and micro vascular complications of Diabetes Mellitus
2. Define Thyroid Storm and Myxoedema coma
3. Enumerate the various causes for Heart Failure
4. Write short notes on Essential Drug concept.
5. Write short notes on Oral contraceptive drugs and its usage
6. Explain the Pathogenesis of Myocardial Infarction
7. Write the FDA pregnancy risk classification of drugs
8. Write about Renin Angiotensin Aldosterone System.
9. Write a note on Spirometry
10. Write short notes on drug induced pulmonary diseases.

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

11. Write about Vaughan – Williams' s classification of drugs in the management of arrhythmias.
12. Explain the triggering factors, pathophysiology, and pharmacotherapy of Asthma
13. Discuss in detail about factors to be considered when selecting a drug dosage regimen or route of administration for a paediatric patient
14. (a) Write a note on pathophysiology of closed-angle glaucoma
(b) Brief note on pharmacotherapy of Bacterial and viral conjunctivitis
15. (a) Discuss in detail about postmenopausal osteoporosis and its treatment options (b) Write short notes on Hormone replacement therapy & its application
16. What is Rational and effective prescribing and give the role of pharmacist in the same
17. What is Hyperlipidemia? Classify Lipid lowering drugs. Write the pharmacology of HMG-CoA Reductase Inhibitors & Lipoprotein lipase activators
18. Discuss Pharmacological and non-pharmacological management of Diabetes Mellitus.

FACULTY OF PHARMACY

Pharm D II Year (6 YDC) (Main & Backlog) Examination, September 2023
Subject: Pharmacology-I

Time: 3 Hours**Max. Marks: 70****PART - A****Note: Answer all the questions.****(10 x 2 = 20 Marks)**

1. Describe the advantages and disadvantages of oral route.
2. Differentiate between Angina Pectoris and Congestive cardiac failure.
3. Describe the different stages of General Anaesthesia.
4. Write a note on mydriatics and miotics.
5. Write a note on insulin.
6. Write the pharmacological actions of nitroglycerine.
7. Explain pharmacodynamics in brief.
8. Define mucolytics and antitussives with examples.
9. Define the toxicity of alcohol.
10. Write a note on preclinical trial.

PART - B**Note: Answer any five questions.****(5 x 10 = 50 Marks)**

11. Define and classify cholinergic drugs and write the pharmacological actions of Acetyl choline in detail.
12. Define and classify antihypertensive and write the pharmacological actions of captopril.
13. Define and classify hypoglycemic drugs and write the pharmacological actions of glibenclamide.
14. Write a note on factors modifying efficacy of drugs.
15. Define and classify drug drug interactions with examples.
16. Define and classify antihistaminics and add a note on H1 blockers.
17. Define and classify calcium channel blockers and describe its role in the management of hypertension.
18. Define and classify antiepileptic agents and write the pharmacological actions of Phenytoin in detail.

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FACULTY OF PHARMACY

Pharm. D II-Year (6YDC) (Main & Backlog) Examination, September 2023

Subject: Pharmaceutical Microbiology

Time: 3 Hours

Max.Marks:70

PART-A

Note: Answer all the questions (10 x 2 = 20 Marks)

1. Define bactericidal agents with examples.
2. Explain the principle involved in gram staining.
3. Write about active immunity.
4. Write the composition and uses of nutrient agar medium.
5. Describe about sterilization by radiation.
6. Write about spirochetes.
7. What are Vaccines and Haptens?
8. Explain the classification of virus.
9. Write a note on the structure of antibody.
10. Write causative factors and symptoms of Tuberculosis.

PART- B

Note: Answer any five questions. (5 x 10 = 50 Marks)

11. Explain about the morphology and classification of bacteria with suitable examples.
12. Define antigen and antibody? Explain precipitation and agglutination reactions.
13. Explain various methods of enumeration of bacteria.
14. Give an account on evaluation of disinfectants.
15. Write a short note on widal test and mantoux test.
16. Explain different types of media for the growth of microorganisms.
17. Explain about microbiological assay of Vitamin B₁₂ according to I.P.
18. Write a note on pathogenesis, lab diagnosis, treatment and prevention of
 - (a) Hepatitis
 - (b) Syphilis

FACULTY OF PHARMACY

Pharm. D (6-YDC) II-Year (Instant) Examination, May / June

2022 Subject: Pharmacotherapeutics- I

Time: 3 Hours

Max. Marks: 70

PART - A

Note: Answer all the questions:

(10 x 2 = 20 Marks)

1. Define torsade de points with examples?
2. Name the diuretics commonly used in the management of CHF?
3. Mention the adverse effects of insulin therapy?
4. Write the clinical manifestations and diagnosis of arrhythmias?
5. Define Osteoblasts, Osteoclasts and Osteocyte?
6. What are different types Lung volumes?
7. Write a short note on irrational use of drugs?
8. Write the risk factors and causes of diabetes mellitus?
9. Write down the formulas for YOUNG's and CLARKS?
10. Write a note on viral Conjunctivitis?

PART - B

Note: Answer any five questions:

(5 x 10 = 50 Marks)

11. Write a short note on:
 - a) Management of STEMI?
 - b) Management of Hypothyroidism?
12. Define COPD? Describe Etiopathogenesis and diagnosis for COPD?
13. Mention the general prescribing guidelines for paediatrics?
14. Write the Etiopathophysiology and management of Hyperthyroidism?
15. Define Angina Pectoris. Write the Etiopathophysiology and management of Angina?
16. a) Define Rational drug use. Explain role of clinical pharmacist in rational drug use
b) Explain the measures and drug use indicators to promote Rational drug use?
17. Explain etiopathogenesis and management of Bacterial Conjunctivitis?
18. Write a short note on:
 - a) Classification of Anti Hypertensive Drugs
 - b) Step wise Management for Asthma

FACULTY OF PHARMACY
Pharm. D II - Year (6 YDC) (Instant) Examination, May 2022

Subject: Pathophysiology

Time: 3 Hours

Max. Marks: 70

PART - A

Note: Answer all questions:

(10 x 2 = 20 Marks)

- 1 Write the symptoms of deficiency of vitamin B₁₂.
- 2 Discuss the mechanism of rejection of allograft.
- 3 Mention the abnormalities in proteniaemia.
- 4 Write the symptoms in inflammatory bowel syndrome.
- 5 Define the terms Invasion and metastasis.
- 6 Mention the complications of ulcerative colitis.
- 7 Discuss the pathophysiology of extra pulmonary tuberculosis.
- 8 Write the clinical features of acute renal failure.
- 9 Write the biological effects of radiation.
- 10 Discuss the etiological factors of obesity.

PART - B

Note: Answer any five questions:

(5 x 10 = 50 Marks)

- 11 What are different types of chronic inflammation? Discuss in detail about cellular events in chronic inflammation.
- 12 Describe the structure of MHC (Major Histocompatibility complex) with a neat labeled diagram.
- 13 Write a note on pathogenesis
(a) CHF (b) Stroke
- 14 Mention different autoimmune disorders. Discuss the pathogenesis of Bronchial Asthma and COPD.
- 15 Discuss the pathogenesis of Diabetes mellitus and how advanced Glycation End products formed.
- 16 Explain the Etiology and pathogenesis of cancer.
- 17 Discuss the Etiopathogenesis of AIDS.
- 18 Explain the pathogenesis of obesity.

FACULTY OF PHARMACY
Pharma. D II Year (6-YDC) (Instant) Examination, May 2022
Subject: Community Pharmacy

Time: 3 Hours

Max. Marks: 70

PART – A

Note: Answer all questions.

(10 x 2 = 20 Marks)

- 1 Define the role of Community Pharmacist.
- 2 Define Buffer Stock
- 3 Mention any two counselling information while dispensing NSAID drugs.
- 4 Define Pharmaceutical Care
- 5 Define Health
- 6 What are the symptoms of HIV?
- 7 Mention deficiency symptoms of Vitamin A and D
- 8 What do you mean by essential drugs?
- 9 What are the drugs used in the treatment of worm infestation.
- 10 Mention two intrauterine devices used in contraception

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

- 11 Explain the selection of site, space layout as per schedule N and design of a community pharmacy outlet.
- 12 Explain various registers used in community pharmacy outlet and the use of computers in community pharmacy?
- 13 Define medication adherence. What are the factors affecting adherence. How pharmacist can improve adherence?
- 14 What are the different methods of EOQ analysis?
- 15 Describe in detail principles of Pharmaceutical Care.
- 16 Define OTC Medications. Describe in detail counselling of any three category of OTC medications?
- 17 Describe in detail importance and methods of screening of diabetes or hypertension?
- 18 What are the causative organisms, symptoms, treatment and prevention of Typhoid.

FACULTY OF PHARMACY

Pharm. D (6-YDC) II - Year (Instant) Examination, May

2022 Subject: Pharmacology - I

Time: 3 Hours

Max. Marks: 70

PART- A

Note: Answer all questions:

(10 x 2 = 20 Marks)

1. Write about different mechanism of absorption of drugs.
2. Define Parkinsonism. Write the pharmacology of levo-dopa.
3. Define angina pectoris. Classify the types of Angina. Write the pharmacological actions and uses of calcium channel blockers.
4. Classify anti-depressants. Write the pharmacology of Imipramine.
5. Write a note on anti-tussives.
6. Write about role of pathophysiological role of oxytocin.
7. Classify eicosanoids. Write the pathophysiological role of leukotrienes and applications of Leukotriene antagonists.
8. Write about Acute, sub-acute and chronic toxicity studies.
9. Classify anti-hyperlipidemics. Write about the pharmacology of clofibrate.
10. Write the uses of local anesthetics.

PART-B

Note: Answer any five questions:

(5 x 10 = 50 Marks)

11. What are the advantages and disadvantages of different routes of drug administration?
12. Classify parasympathomimetics with examples. Write the mechanism of action, Pharmacological actions and adverse effects of Acetylcholine.
13. Classify Anti-Arrhythmic drugs. Write the pharmacology of drugs used to treat drugs used to treat Arrhythmias.
14. Classify Anti-epileptics. Write in detail about the pharmacology of any two classes or drugs used to treat epilepsy.
15. a) Write the synthesis and regulation of thyroid hormones.
b) Write about oral contraceptives.
- 16 a) Write a note on nasal decongestants.
b) Write a note on mucolytics.
- 17 a) What are autacoids? Classify. Write in detail the pathophysiological role of serotonin.
b) Write the clinical uses of 5-HT Antagonists.
- 18 a) What are eicosanoids? Write the biosynthesis.
b) Write short notes on CNS stimulants.

FACULTY OF PHARMACY
Pharma. D II Year (6-YDC) (Instant) Examination, May 2022
Subject: Pharmacognosy and Phyto Pharmaceuticals

Time: 3 Hours

Max. Marks: 70

PART – A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

- 1 Define (a) Pharmacognosy (b) Crude drugs
- 2 Note on Ergastic Substances
- 3 Define (a) Rancidity (b) Isoelectric point
- 4 Powder micro scopy of Ephedra
- 5 Write a note on cell wall constituents
- 6 Chemical test Flavonoids
- 7 Write the sources, active Constituents and uses of Honey
- 8 Differences between organized and unorganized drugs
- 9 Chemical test for Castor oil and sesame oil
- 10 Define terms Acid value and Iodine value.

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

- 11 (a) Write a note on History and Scope of Pharmacognosy.
(b) Enumerate the classification crude drugs, explain Chemical classification Crude drugs.
- 12 Explain in briefly Exo and Endogenous Factor Affecting Cultivation of crude drugs.
- 13 (a) Define and classify volatile with example.
(b) Write the sources, active constituents and uses fennel and coriander.
- 14 Write a short note on (I) Natural Pesticide (II) Plant Growth Regulator.
- 15 (a) Define and classify Carbohydrates.
(b) Define Adulteration and types of Adulteration.
- 16 Draw TS of Ephedra and Nux vomica.
- 17 (a) Define and classify Surgical Dressing add a note on Cotton.
(b) Difference between Volatile oil and Fixed oil.
- 18 (a) Define and classify Proteins. Write a note on gelatin.

(b) Write a note on estimation of protein.

FACULTY OF PHARMACY
Pharm. D II - Year (6-YDC) (Instant) Examination, May 2022

Subject: Pharmaceutical Microbiology

Time: 3 Hours

Max. Marks: 70

PART – A (20 Marks)

Note: Answer all questions.

- 1 What is Selective media and maintenance media?
- 2 What is Antiseptic and Fungicidal?
- 3 What are antigens and Haptens?
- 4 Define Fractional Sterilization.
- 5 What are Exotoxins and Endotoxins?
- 6 Define Gram negative bacteria.
- 7 What is protoplast and spheroplast?
- 8 Define aerobic and facultative anaerobic bacteria.
- 9 Define Microbiological assay.
- 10 Write symptoms of cholera.

PART – B (50 Marks)

Note: Answer any five questions.

- 11 Write in detail nutritional requirements and physical requirements of bacteria.
- 12 Explain in detail about maintenance of pure culture.
- 13 Explain simple staining and Negative staining technique.
- 14 Describe the evaluation of preservatives in Pharmaceutical preparations.
- 15 Explain precipitation and Agglutination reactions.
- 16 What is immunity? Explain type of Immunity.
- 17 Explain Mantoux test and Widal test.
- 18 Write in detail about Typhoid disease.

FACULTY OF PHARMACY

Pharm D II Year (3-YDC) (Instant) (Post Baccalaureate) Examination, May 2022

Subject: Clinical Research

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions from Part A, Answer any five questions from Part B.

PART - A (20 Marks)

- 1 Write note on randomized clinical trials.
- 2 Enumerate the essential documents in conducting clinical trials.
- 3 Write briefly about query management in CDM.
- 4 What is patient information sheet?
- 5 What is blinding in clinical trials? What is its significance?
- 6 What is IND application? How is it filed as per schedule Y?
- 7 What is preclinical drug development? Write regulatory requirements for conducting preclinical studies.
- 8 Write different methods of target validation.
- 9 List out various functions of CDSCO.
- 10 Enumerate responsibilities of Auditor as per ICH GCP.

PART - B (50 Marks)

- 11 Discuss various drug characterization techniques in drug discovery process.
- 12 Discuss various phases of clinical trials and their objectives.
- 13 Explain informed consent process for participation in clinical trials including special group as participants.
- 14 Explain in detail the regulatory environment in USA.
- 15 Explain about electronic based data capture system with advantages.
- 16 Explain in detail responsibilities of investigator as per ICH GCP.
- 17 a) Write a note on ICF design.
b) Write note on clinical data storage and security.
- 18 Explain in detail the different methods of post marketing surveillance.

FACULTY OF PHARMACY
Pharm D V Year (6-YDC) (Instant) Examination, May 2022

Subject: Clinical Research

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions from Part A, Answer any five questions from Part B.

PART - A (20 Marks)

- 1 Write note on randomized clinical trials.
- 2 Enumerate the essential documents in conducting clinical trials.
- 3 Write briefly about query management in CDM.
- 4 What is patient information sheet?
- 5 What is blinding in clinical trials? What is its significance?
- 6 What is IND application? How is it filed as per schedule Y?
- 7 What is preclinical drug development? Write regulatory requirements for conducting preclinical studies.
- 8 Write different methods of target validation.
- 9 List out various functions of CDSCO.
- 10 Enumerate responsibilities of Auditor as per ICH GCP.

PART - B (50 Marks)

- 11 Discuss various drug characterization techniques in drug discovery process.
- 12 Discuss various phases of clinical trials and their objectives.
- 13 Explain informed consent process for participation in clinical trials including special group as participants.
- 14 Explain in detail the regulatory environment in USA.
- 15 Explain about electronic based data capture system with advantages.
- 16 Explain in detail responsibilities of investigator as per ICH GCP.
- 17 a) Write a note on ICF design.
b) Write note on clinical data storage and security.
- 18 Explain in detail the different methods of post marketing surveillance.

FACULTY OF PHARMACY

Pharm.D (6-YDC) II-Year (Main&Backlog) Examination, October

2021 Subject: Pharmacotherapeutics-I

Time: 2 Hours

Max.marks: 70

PART-A: (6x5=30 Marks)

Note: Answer any six questions from Part-A

1. Write the JNC classification of Hypertension?
2. Define systolic and diastolic heart failure?
3. Define Angina? Write about the characteristics of stable and unstable angina?
4. State the role of pharmacist in providing rational drug therapy?
5. Define peak expiratory flow rate and FEV1?
6. Differentiate extrinsic and intrinsic factors of Asthma?
7. What is a nocturnal Hypoglycemia and Diabetic ketoacidosis?
8. What are the clinical features and diagnostic tools used in Hashimotos Disease?
9. Enlist various types of oral contraceptives?
10. Write a short note on Electrophysiology of heart?

PART-B: (4x10=40 Marks)

Note: Answer any four questions from Part-B

11. Explain pathophysiology, clinical manifestations and management of Hypertension?
12. A] Discuss general prescribing guidelines for paediatrics
B] Define Osteoporosis and explain pathophysiology of osteoporosis
13. Write a short note on:
A] Management of Type 2 Diabetes mellitus?
B] Rational drug formulation?
C] Management of oral contraceptives?
14. Write the Etiopathophysiology and management of Asthma?
15. Define Glaucoma, Explain Etiopathogenesis of open angle and closed angle Glaucoma with diagrammatic representation.
16. Describe the Role of clinical pharmacist in rational drug use
17. Define Congestive cardiac failure. Discuss etiopathogenesis and management of CCF?
18. Write a short note on:
A] Hormone replacement therapy
B] Management of Hyperlipidemia
C] Types of Angina

FACULTY OF PHARMACY
Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, October 2021

Subject: Pathophysiology

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part-A. Answer any four questions from Part-B.

PART- A (6x5=30 Marks)

- 1 Explain the biological effects of smoking.
- 2 Mention type-II hypersensitivity reactions.
- 3 Describe the structure of B-Lymphocytes.
- 4 Explain events in tissues repair.
- 5 What is metastasis?
- 6 Mention the disorders of fat soluble vitamins.
- 7 Discuss the pathophysiology of tuberculosis.
- 8 Write the clinical features of Asthma.
- 9 Discuss the Pathogenesis of Dengue Haemorrhagic fever.
- 10 Write the signs and symptoms of Parkinsonism.

PART- B (4x10=40 Marks)

- 11 Discuss the pathogenesis of Diabetes mellitus.
- 12 What are different types of hypersensitivity reactions? Discuss the pathogenesis of type-II and type-III reactions.
- 13 Write a note on pathogenesis of
 - (a) liver cirrhosis
 - (b) Alcoholic liver disease
- 14 Discuss the pathogenesis of Parkinsonism.
- 15 Explain the Etiology and pathogenesis of cancer.
- 16 Discuss the Etiopathogenesis of Tuberculosis and Leprosy.
- 17 Explain the pathogenesis of atherosclerosis and myocardial Ischaemia.
- 18 Discuss the types pathogenesis of Chronic renal failure.

FACULTY OF PHARMACY

Pharma. D II Year (6-YDC) (Main & Backlog) Examination, October 2021

Subject: Community Pharmacy

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part A, Answer any four questions from Part B.

PART – A (6 x 5 = 30 Marks)

- 1 Define Community Pharmacy and Community Pharmacist
- 2 Define Lead Time
- 3 What do you mean by OTC drugs? Give two examples
- 4 Define Health Screening
- 5 Define Health
- 6 What are the symptoms of TB?
- 7 Mention any two drugs used in the treatment of HIV
- 8 What do you mean by code of ethics
- 9 Define rational use of drugs
- 10 Mention the permanent methods of sterilisation

PART – B (4 x 10 = 40 Marks)

- 11 Explain the roles and responsibilities of Community Pharmacist.
- 12 Describe schedule N. What are the legal requirements to start a Community Pharmacy Outlet?
- 13 Explain different parts of prescription. What do you mean by legality of prescription?
- 14 Describe in detail ABC Analysis.
- 15 Describe in detail principles of Pharmaceutical care.
- 16 Explain various barriers of patient counselling. What do you mean by patient information leaflets?
- 17 Describe clinical presentation of anyone STD. Explain the treatment and prevention of the same.
- 18 What are the different contraceptive methods? What is the role of pharmacist in family planning?

FACULTY OF PHARMACY

Pharm. D (6-YDC) II -Year (Main & Backlog) Examination, October 2021

Subject: Pharmacology-I

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part-A and answer any four questions from Part-B.

PART-A: (6x5=30 Marks)

1. Write about G-protein coupled receptors.
2. Write about the treatment of myasthenia gravis.
3. Classify the drugs used in congestive heart failure. Write the pharmacology of digitalis glycosides.
4. Classify anti-psychotics. Write the pharmacology of Chlorpromazine.
5. Write a note on expectorants.
6. Write a note on thyroid disorders with the treatment.
7. What are eicosanoids? Write the pathophysiological role of prostaglandins and applications of prostaglandin antagonists.
8. Write about pre-clinical evaluation in toxicity studies.
9. What are mydriatics and miotics? Give examples. Write the uses of each.
10. What are opiod analgesics? Write the pharmacological actions of morphine.

PART-B: (4x10=40 Marks)

11. a) Write a note on Phase-I biotransformation reactions.
b) Write in detail about factors modifying drug actions.
12. Classify adrenergic drugs with examples. Write the pharmacology of isoprenaline.
13. Classify anti-hypertensive with examples. Explain in detail about any two classes of anti-hypertensives.
14. a) Classify NSAIDS with examples. Explain in detail about any one drug.
b) Write a note on general anesthetics.
- 15 a) What are hypoglycemic? Classify oral hypoglycemic and write in detail about them.
b) Enumerate the actions of insulin.
- 16 Classify drugs used for bronchial asthma. Explain in detail the pharmacology of drugs used in the treatment of bronchial asthma.
17. What are autacoids? Classify. Write in detail the pathophysiological role of histamine. Write the clinical uses of Anti-Histamines.
18. a) Classify sedatives and hypnotics with examples. Write the uses and adverse of phenobarbitone.
b) Explain drug-drug interactions with few examples.

FACULTY OF PHARMACY

Pharma. D II Year (6-YDC) (Main & Backlog) Examination, October 2021

Subject: Pharmacognosy and Phyto Pharmaceuticals

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part A, Answer any four questions from Part B.

PART – A (6 x 5 = 30 Marks)

- 1 Define (a) Pharmacognosy (b) Crude drugs
- 2 Note on Ergastic Substances
- 3 Define (a) Denaturation (b) Rancidity
- 4 Powder micro scopy of cinchona
- 5 Write a note on cell wall constitutents
- 6 Chemical test for Alkaloids
- 7 Shinoda Test and Baljet Test
- 8 Powder microscopy of fennel
- 9 Write the sources, active constitutents and uses of ginger
- 10 Differences between Gums and Mucilage

PART – B (4 x 10 = 40 Marks)

- 11 (a) Enumerate the classification crude drugs, explain Pharmacological Crude drugs.
(b) Briefly write the Cultivation collection of Senna.
- 12 Explain briefly Factor Affecting Cultivation of crude drugs.
- 13 (a) Define and classify Lipids with eg.
(b) Write sources, active constituents and uses of Olive oil and bees wax.
- 14 Write a short note on (I) Mutation (II) Plant Growth Regulator.
- 15 (a) Define and Classify Volatile oil. Explain one methods of Extraction of Volatile oil.
(b) Write the sources, active constituents and uses Clove.
- 16 Draw T S of Ephedra and Fennel.
- 17 (a) Define and Classify Surgical Dressing add a note on Cotton.
(b) Write the IP Methods of Analysis of Lipids.
- 18 (a) Define and classify Protein, chemical test for Protein.
(b) Write about Gelatin.

Code No. 12455

FACULTY OF PHARMACY
Pharm.D II - Year (6-YDC) (Main & Backlog) Examination, October 2021

Subject: Pharmaceutical Microbiology

Time: 2 Hours

Max. Marks: 70

PART – A

Note: Answer any six questions.

(6 x 5 = 30 Marks)

- 1 What is differential method and enriched media?
- 2 What is sterilization and Disinfection?
- 3 What is Immunity?
- 4 Define Tyndalization.
- 5 What are toxins and toxoids?
- 6 Define Gram Positive Organism.
- 7 What are mesosomes? Types of mesosomes.
- 8 Define spirochetes
- 9 What are vaccines?
- 10 Write symptoms of Typhoid.

PART – B

Note: Answer any four questions.

(4 x 10 = 40 Marks)

- 11 Explain in detail how pasture disproved the theory of spontaneous generation.
- 12 Explain different methods of isolation of pure cultures.
- 13 Explain in detail about Gram Staining Technique.
- 14 Write in detail Physical methods of sterilization.
- 15 Explain phagocytosis and complement system.
- 16 What are Antibodies? Types of Antibodies and explain the typical structure of Antibody.
- 17 Write about schick's Test and ELISA Test.
- 18 Write in detail about Tuberculosis disease.

FACULTY OF PHARMACY
Pharm-D (6-YDC) II-Year (Instant) Examination, July 2021

Subject : Pathophysiology

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part-A. Answer any four questions from Part-B.

PART- A (6x5=30 Marks)

- 1 Explain the biological effects of smoking.
- 2 Define Acute and chronic inflammation.
- 3 Describe the structure of B-Lymphocytes.
- 4 Explain events in tissue repair.
- 5 Define the terms invasion and metastasis.
- 6 Mention the disorders of fat soluble vitamins.
- 7 Discuss the pathophysiology of Diabetes mellitus.
- 8 Write the clinical features of COPD.
- 9 Discuss the Pathogenesis of Dengue Haemorrhagic fever.
- 10 Write the signs and symptoms of Malaria.

PART-B (4x10=40 Marks)

- 11 Mention different autoimmune disorders. Discuss the pathogenesis of amyloidosis.
- 12 What are different types of hypersensitivity reactions? Discuss the pathogenesis of type - II and type - III
- 13 Write a note on pathogenesis of
 - a) liver cirrhosis
 - b) peptic ulcer.
- 14 Discuss the pathogenesis of Parkinsonism.
- 15 Explain the Etiology and pathogenesis of cancer.
- 16 Discuss the Etiopathogenesis of Tuberculosis and Leprosy.
- 17 Explain the pathogenesis of atherosclerosis and myocardial infarction.
- 18 Discuss the types and pathogenesis of renal failure.

FACULTY OF PHARMACY
Pharm-D (6-YDC) II-Year (Instant) Examination, July 2021

Subject : Community Pharmacy

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part-A. Answer any four questions from Part-B.

PART- A (6x5=30 Marks)

- 1 Define code of ethics.
- 2 Name any two drug databases used in the provision of drug information
- 3 Define EOQ
- 4 What do you mean by coding?
- 5 Mention two counselling information while dispensing NSAIDS and antihistamines
- 6 Define a prescription.
- 7 Mention any two drug related problems with examples.
- 8 Define essential medicines.
- 9 Write the clinical manifestations of TB.
- 10 Define adherence.

PART-B (4x10=40 Marks)

- 11 Explain in detail the various ethics a pharmacist must follow for the practice of pharmacy.
- 12 a) How computers are used in retail pharmacy shop?
b) Give the role of internet in Pharmacy.
- 13 What are the requirements to obtain a licence to open a drug store?
- 14 Explain the role of community pharmacists in health promotion activities in community?
- 15 Explain various contraceptive devices used in practice. What is the role of pharmacist in family planning?
- 16 Explain pathophysiology, symptoms and prevention of AIDS.
- 17 Explain in detail how community pharmacist can improve rational use of drugs in community?
- 18 Describe pathophysiology and drug therapy to pain and dyspepsia.

FACULTY OF PHARMACY
Pharm-D (6-YDC) II-Year (Instant) Examination, July 2021

Subject: Pharmacology-I

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part A and answer any four questions from Part-B.

PART-A (6 x 5 = 30 Marks)

- 1 Explain in brief about Idiosyncrasy
- 2 Write a note on Insulin preparations
- 3 Classify Anti-Hyperlipidaemic drugs
- 4 Differentiate between Sedatives and Hypnotics. Give examples
- 5 Describe the mechanism of action of platelet activating factor
- 6 Give two examples of drug-drug interactions
- 7 Define Mydriatics and Miotics. Give examples.
- 8 Enlist the drugs used to treat Parkinson's disease.
- 9 Explain the pharmacological actions of salbutamol.
- 10 Discuss the physiological role of serotonin.

PART-B (4x10=40 Marks)

- 11 a) Classify alpha blockers with examples. Explain the mechanism of action, adverse effects and therapeutic uses of any two drugs.
b) Write a note on Dale's vasomotor reversal of Adrenaline.
- 12 a) Classify various routes of administration. Explain in detail about the advantages and disadvantages of oral and parental routes of administration.
b) Explain in brief about factors modifying drug action.
- 13 a) Define Hypertension. Classify anti-hypertensive agents with examples.
b) Explain the mechanism of action of Angiotensin converting enzyme (ACE) inhibitors and Calcium channel blockers (CCB's).
- 14 Define seizures. Classify anti-epileptic agents with examples. Explain the mechanism of action of any two classes of drugs.
- 15 a) Describe in brief about Anti-tussives and Nasal decongestants.
b) Write a note on local anaesthetics.
- 16 a) Classify anti-thyroid drugs with examples. Explain the pharmacology of any two classes of drugs in detail.
b) Write a note on Oral contraceptives.
- 17 a) Describe the biosynthesis pathway of Eicosanoids.
b) Write a note on uterine stimulants and uterine relaxants.
- 18 a) Describe the various phases of Biotransformation reactions.
b) Explain in detail about treatment of Opioid poisoning.

FACULTY OF PHARMACY
Pharm-D (6-YDC) II-Year (Instant) Examination, July 2021

Subject : Pharmacognosy & Phytopharmaceuticals

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part-A. Answer any four questions from Part-B.

PART- A (6x5=30 Marks)

- 1 Define (a) Pharmacognosy (b) Crude drugs
- 2 Add a note on Ergastic Substances
- 3 Define (a) Rancidity (b) Isoelectric point.
- 4 Discuss powder micro scopy of Coriander
- 5 Write a note on cell wall constituents
- 6 Explain chemical test for Senna and Starch
- 7 Write the sources, active constituents and uses of Isapgol
- 8 Difference between organised and unorganised drugs
- 9 Chemical test for Castor oil and sesame oil
- 10 Define term Acid value and Iodine value

PART- B (4x10=40 Marks)

- 11 a) Write a note on History and Scope of Pharmacognosy.
b) Enumerate the classification of crude drugs and different methods for adulteration of crude drugs
- 12 Explain in briefly Exo and Endo genius Factor Affecting Cultivation of crude drugs
- 13 a) Define Carbohydrates and colour Reaction for Carbohydrates
b) Write the sources, active constituents and uses Guar gum and Aliginic Acid
- 14 Write a Short note on (I) Natural Pesticide (II) Plant Growth Regulator
- 15 a) Define and Classify Volatile oil
b) Explain the processing and storage of crude drugs.
- 16 Draw T S of Clove and Nux vomica
- 17 a) Define and Classify Surgical Dressing add a note on Cotton
b) Methods of extraction of lipids
- 18 a) Define and classify Protein, chemical test for Proteins.
b) Write the principle and procedure involved Estimation of Protein.

FACULTY OF PHARMACY
Pharm-D (6-YDC) II-Year (Instant) Examination, July 2021

Subject : Pharmacotherapeutics – I

Time: 2 Hours

Max. Marks: 70

Note: Answer any six questions from Part-A. Answer any four questions from Part-B.

PART- A (6x5=30 Marks)

- 1 Write the FDA pregnancy risk classification of drugs.
- 2 What is FEV₁ & Residual volume.
- 3 List out the different blood glucose test with their normal values.
- 4 Write about Grey baby syndrome.
- 5 Define Angina & Classify its clinical manifestations.
- 6 Give the normal values of T₃, T₄ and TSH with its significance.
- 7 Write a note on emergency contraception.
- 8 Explain the mechanism of action of ACE inhibitors with examples.
- 9 Write about the treatment of viral conjunctivitis.
- 10 Write a note on Hormone Replacement therapy.

PART-B (4x10=40 Marks)

- 11 Write in detail on prescribing guidelines in pregnancy and Lactation.
- 12 a) Discuss etiopathogenesis of COPD.
b) Write a note on pharmacotherapy of asthma
- 13 a) Write about Oral contraceptive pills
b) Describe the treatment of Osteoporosis.
- 14 What are the different types of Glaucoma & Explain in detail about its treatment.
- 15 a) Discuss in detail about Oral hypoglycaemic agents with examples.
b) Explain electrophysiology of Heart.
- 16 a) Explain the pathophysiology of hypertension
b) Write the management of hyperthyroidism.
- 17 a) Describe the role of pharmacist in promoting rational use of antibiotics.
b) Write the line of treatment / flowchart for the management of STEMI
- 18 Give etiopathogenesis, diagnosis & treatment of congestive cardiac failure.
