**Code No. G-13264**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II - Year (Main & Backlog) Examination, August 2025**
**Subject: Community Pharmacy**

**Time: 3 Hours** **Max. Marks: 70**

## PART - A

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

1. Define Balance diet. Write the composition of Balance diet.
2. List out the various factors to be considered during selection of appropriate site for community pharmacy.
3. Define health screening services. Write its importance.
4. Write a note on opportunistic infections in AIDS.
5. Write the importance of coding and stocking in community pharmacy.
6. Define patient medication adherence.
7. Define the term lead time and safety stock.
8. Write the WHO definition of health.
9. Write the drug therapy for worm infestation.
10. Define OTC drugs. Give any two examples.

## PART – B

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

11. (a) Describe the role and responsibilities of community pharmacist.
    (b) Write the staff required in community pharmacy.
12. (a) Define Inventory control. Write about ABC and VED Analysis.
    (b) Explain the role of pharmacist in family planning.
13. Discuss the causative agents, clinical presentations and prevention of
    (i) Malaria (ii) Typhoid.
14. Define prescription. Write the parts of prescription in detail.
15. Write the pathophysiology and drug therapy for the following:
    (i) Nausea and vomiting (ii) Constipation.
16. (a) Define Rational drug therapy (DU). Explain the role of pharmacist in improving RDU.
    (b) Add a note on various registers used in community pharmacy management.
17. Write in detail about care of geriatric patients.
18. (a) Define and describe various factors affecting medication adherence.
    (b) Write about the screening of BP.

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**Code No. G-13263**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II - Year (Main & Backlog) Examination, August 2025**

**Subject: Pharmacology - I**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Write about Phase II reactions
2. Explain the terms a) Mutagenicity b) Teratogenicity?
3. Write the actions of acetylcholine on heart and salivary glands
4. Explain the mechanism of action of Phenobarbitone
5. Add a note on mucolytic agents
6. Explain the Demerits of parenteral route of drug administration?
7. Write briefly on Oral contraceptives
8. Classify Antiparkinsonim drugs
9. Explain the therapeutic uses of ACE inhibitors
10. Write the MOA of lidocaine

## PART – B

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

11. Classify receptors? Explain in detail about G protein coupled receptors and Enzyme linked receptors?

12. Classify Para-sympathomimetics with examples. Write the pharmacological actions and therapeutic uses of Acetylcholine?

13. Classify Anti-hypertensive agents? Write in detail pharmacology of any two classes of drugs?

14. Classify Antiepileptic agents? Explain the mechanism of action, therapeutic drugs and adverse effects of sodium valproate and Phenytoin.

15. Classify drugs used for bronchial asthma. Explain in detail the pharmacology of drugs used in the treatment of bronchial asthma.

16. Classify Autocoids. Write in detail the pathophysiological role of histamine. Write the clinical uses of Anti-Histamines.

17. a) Write the synthesis and regulation of thyroid hormones.
    b) Write about Nasal decongestants.

18. a) What are opioid analgesics? Classify with examples. Write the pharmacological actions of morphine
    b) Write a note on cognition enhance

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**Code No: G-13262**

# FACULTY OF PHARMACY

**Pharm. D (6YDC) II-Year (Main & Backlog) Examination, August 2025**

**Subject: Pharmacognosy and Phyto Pharmaceuticals**

**Time: 3 Hours** **Max.Marks:70**

## PART – A

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

1. Classify crude drugs with examples.
2. Define alkaloids and Resins with examples.
3. Define the term Acid value and Iodine value.
4. Difference between organized and unorganized drugs.
5. What are artificial pesticides give some examples.
6. Write Van Urks and Salkowski tests.
7. Write any two identification test for tragacanth.
8. Write the difference between fats and waxes.
9. Write BS and uses of Hemp.
10. Write Powder microscopy of Ephedra.

## PART – B

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

11. (a) Define adulteration? Explain in detail about the types of adulteration with examples. (7)
    (b) Write BS, preparation and uses of absorbent cotton. (3)

12. Write a note on Collection, processing and storage of crude drugs. (10)

13. Write the Pharmacognostic study of Cod liver oil and Shark liver oil. (5+5)

14. Give the general microscopical characters and powder microscopy of Clove flower bud with neat labeled diagrams? (10)

15. Define and classify Lipids with examples? Write a note on various methods of extraction of fixed oils. (10)

16. Write biological source, chemical constituents and uses of Cotton, Pectin, Bees wax and Derrin. (10)

17. (a) What are Surgical dressings. Classify with examples. (5)
    (b) Write BS, preparation and uses of Streptokinase and Urokinase enzymes? (5)

18. Write a note on
    (a) Polyploidy. (5)
    (b) Chemical and Pharmacological classification of Crude drugs. (5)

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**Code No. F-13261**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II - Year (Main & Backlog) Examination, August 2025**
**Subject: Pharmaceutical Microbiology**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Define bacteriostatic and bactericidal agents with examples
2. List out suitable examples for gram positive and gram negative organisms
3. Define immunity and active immunity
4. Write a note on phagocytosis
5. Describe about sterilization by radiation
6. Write about spirochetes
7. Write causative factors and symptoms of syphilis
8. Define differential media
9. Write a note on the structure of antibody
10. Explain the importance of microbiological assay

## PART - B

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

11. Discuss the sterility testing of pharmaceutical preparations
12. Define antigen and antibody. Explain precipitation and agglutination reactions?
13. Explain various methods for isolation of pure cultures?
14. Describe any two methods for evaluation of disinfectants?
15. Write a short note on Montaux test and ELISA technique.
16. Explain different types of media.
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) Typhoid

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**Code No: G-13260**

# FACULTY OF PHARMACY

**Pharm. D (6 YDC) II - Year (Main & Backlog) Examination, August 2025**

**Subject: Pathophysiology**

**Time: 3 Hours** **Max.Marks:70**

## PART – A

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

1. Write the factors influencing healing of wounds. (2)
2. List the abnormalities of lipoproteinemia. (2)
3. Mention the different biological effects of radiation. (2)
4. Write the symptoms of Leprosy. (2)
5. Define and classify hypertension. (2)
6. Differentiate between T cell and B cell. (2)
7. Name the nutritional diseases associated with deficiency of vitamins. (2)
8. Classify different types of Hypersensitivity reactions. (2)
9. Mention different types of Hepatitis. (2)
10. Write about the components of immune system. (2)

## PART – B

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

11. Describe the structure of MHC (Major Histocompatibility complex) with a neat labelled diagram. (10)

12. Discuss the pathogenesis of Parkinsonism. (10)

13. Discuss the pathogenesis of Acute inflammation. (10)

14. (a) Classify different types of Shock. (3)
    (b) Explain Etiopathogenesis of shock. (7)

15. Discuss the pathophysiology of tuberculosis. (10)

16. Explain the Etiopathogenesis of Asthma. (10)

17. (a) What are sexually transmitted diseases (3)
    (b) Explain the pathophysiology of AIDS. (7)

18. Explain the Etiology and pathophysiology of cancer. (10)

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**Code No: G-13265**

# FACULTY OF PHARMACY

**Pharm. D (6 YDC) II - Year (Main & Backlog) Examination, September 2025**

**Subject: Pharmacotherapeutics – I**

**Time: 3 Hours** **Max.Marks:70**

## PART – A

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

1. Define HRT and its significance.
2. Define Hypertensive Urgency and Hypertensive Emergency.
3. Enlist the various complications associated with the use of oral contraceptives.
4. Define teratogenicity? Give examples of teratogens.
5. Discuss the difference between Chronic Bronchitis and Emphysema based on clinical manifestations.
6. Write the dosage regimen of any two statins with their adverse effects.
7. What are the diagnostic tests for Glaucoma?
8. Write the treatment algorithm for NSTEMI. Mention the investigations performed to confirm the diagnosis of heart failure.
9. Differentiate between Bacterial and viral conjunctivitis.
10. Define and explain different phases of ECG with a neat labelled diagram.

## PART – B

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

11. Discuss the aetiology, clinical features, and management in the therapy of Asthma.

12. Explain etiopathogenesis and management of Myocardial Infarction.

13. Compare and contrast Type 1 and Type 2 diabetes presentation, onset, progression, and pathophysiology and pharmacotherapy.

14. What is Hyperlipidaemia? Write the pharmacological treatment for Hyperlipidaemia.

15. (a) Explain the role of ionotropic agents in the treatment of congestive heart failure.
    (b) Explain anti-resorptive therapy in osteoporosis.

16. (a) Write a brief note on Beer's criteria for prescribing geriatric population.
    (b) Define Congestive cardiac failure. Discuss etiopathogenesis of CCF.

17. (a) Explain the pharmacokinetics of drug therapy and the general principle involved in pregnancy therapy in detail.
    (b) Explain the role of the pharmacist in the rational use of drugs.

18. (a) Explain different types of arrhythmia.
    (b) Write a short note on thyroid inhibitors.

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**Code No. F-7290**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 2024**
**Subject: Pathophysiology**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Define the terms atrophy and Hypertrophy with suitable example?
2. Differentiate between Necrosis and Apoptosis?
3. Briefly write about components of immune system?
4. Write a note on glycogen storage disease?
5. Write about Chemical Mediators involved in inflammation?
6. Write the etiological factors involved in Cell Injury?
7. Write a note on biological hazards of radiation?
8. Explain pathogenesis of Typhoid fever?
9. Discuss Clinical Complications of Obesity?
10. Write a note on MHC molecule with neat labelled diagram?

## PART – B

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

11. Explain in detail mechanisms involved in Acute inflammation.
12. Explain in detail Type I and Type IV hypersensitivity reactions.
13. Explain Mechanism of Apoptosis with Neat labelled Diagram.
14. Explain etiopathogenesis of Cancer formation.
15. Discuss the pathogenesis of Diabetes mellitus and formation of AGE products.
16. Explain in detail etiopathogenesis of AIDS?
17. (a) Explain pathogenesis of Acute Kidney Failure.
    (b) Write the pathophysiology of Tuberculosis.
18. Explain in detail types and pathophysiology of SHOCK?

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**Code No. F-7295**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II - Year (Main & Backlog) Examination, September 2024**
**Subject: Pharmacotherapeutics – I**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. What are the indications of Hormone Replacement Therapy (HRT)?
2. Define peak expiratory flow rate and FEVI.
3. Give the normal values of T3, T4 and TSH with its significance.
4. Give any four examples of teratogenic drugs along with their complications.
5. Write a brief note on Beer's criteria for prescribing geriatric population.
6. Write a note on different types of Myocardial Infarction.
7. Explain the glucose tolerance test.
8. List out the secondary causes of hypertension.
9. Write about cardiac glycosides.
10. Classify hypertension according to JNC-7.

## PART – B

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

11. Explain pathophysiology, clinical manifestations and management of Hypertension?
12. (a) Explain in detail about the pharmacotherapy involved in Diabetes mellitus?
    (b) Write a note on diabetic foot.
13. (a) Explain in detail about pathophysiology involved in Asthma.
    (b) Write a note on Step wise Management for Asthma.
14. Explain etiopathogenesis and management of Bacterial Conjunctivitis?
15. Define Angina Pectoris and explain in detail about its Etio pathophysiology and management.
16. (a) Describe the pathophysiology of myocardial infarction.
    (b) Explain the ECG changes in Arrhythmias.
17. What is Hyperlipidemia? Discuss about its diagnostic parameters, Pharmacological and non-pharmacological management.
18. (a) Define essential drug concept & Rational use of Drugs.
    (b) Explain role of pharmacist in improving rational drug use.

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**Code No. F-7294**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 2024**
**Subject: Community Pharmacy**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Write about the business and health care soft wares used in community pharmacy management.
2. How the safety stock is maintain in community pharmacy?
3. Define the terms: (a) Safety stock (b) Lead time
4. What particular things cover under pharmaceutical care plan.
5. What do you mean by un-intentional non-adherence to medication.
6. How the peak expiratory flow rate PEFR is counted.
7. List out the advantages of having OTC medicines list.
8. How do you counsel a TB patient?
9. Mention about the daily requirement of vitamin-B complex in various groups of population.
10. Write about Typhoid and give its prevention and treatment.

## PART – B

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

11. Write in detail about the causative agents, clinical presentation and prevention of
    (a) Amoebiasis (b) AIDS.
12. Discuss about the skills to improve the health and write about geriatric care.
13. Write about balance diet and nutrition deficiency disorders.
14. Mention the symptoms and discuss the pathophysiology and drug therapy for
    (a) Constipation (b) Ophthalmic symptoms.
15. Write in detail about the check list items for counselling.
16. Define and elaborate drug related problem.
17. Define community pharmacy? Write about its scope and put the light on Indian and international scenario.
18. Write about the consequences of medication non-adherence and role of pharmacist in improving the medication adherence.

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**Code No: F-7293**

# FACULTY OF PHARMACY

**Pharm. D II - Year (6 YDC) (Main & Backlog) Examination, September 2024**

**Subject: Pharmacology – I**

**Time: 3 Hours** **Max.Marks:70**

## PART-A

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

1. Write about Phase I and Phase II reactions?
2. Explain the terms (a) Carcinogenicity (b) Teratogenicity?
3. Classify alpha blockers with examples?
4. Explain the mechanism of action of benzodiazepines?
5. Add a note on mucolytic agents?
6. Explain the limitations of oral route of drug administration?
7. Write briefly on Oral contraceptives?
8. What is Plasma protein binding? Write its significance.
9. Explain the role of Angiotensin receptor blockers in hypertension?
10. What are tocolytics? Write examples.

## PART-B

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

11. Classify receptors? Explain in detail about G protein coupled receptors and ion channel receptors?

12. Classify sympathomimetics with examples. Write the pharmacological actions, adverse effects and therapeutic uses of any two classes of drugs?

13. Classify Anti-anginal drugs. Write in detail pharmacology of any two class of drugs used to treat Angina pectoris?

14. Classify Anti-Parkinsonism drugs? Explain the mechanism of action, therapeutic drugs and adverse effects of any two classes of drugs?

15. (a) Classify the drugs used in the treatment of Asthma.
    (b) Write a note on Expectorants and Nasal decongestants?

16. (a) Classify NSAIDS (Non – Steroidal Anti – inflammatory Drugs) with examples. Explain in detail about any one drug.
    (b) Write a note on general anaesthetics?

17. (a) Write the synthesis and regulation of thyroid hormones.
    (b) Write about oral contraceptives?

18. Classify oral hypoglycaemic agents? Explain mechanism of action adverse effects and therapeutic uses of any two classes of drugs?

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**Code No. F-7292**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II - Year (Main & Backlog) Examination, September 2024**
**Subject: Pharmacognosy and Phyto Pharmaceuticals**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Mention some applications of ethylene?
2. What are natural pesticides give some examples.
3. Mention two tests for identification of Pericyclic fibres.
4. Write BS and uses of Pectin.
5. What are Cell constituents give some examples.
6. What are Saponins, Write two identification tests.
7. Write any two identification test for Honey.
8. What are ash values and write their importance?
9. What are secretory substances add some examples?
10. Write about killer Killani test and Super critical fluid extraction.

## PART – B

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

11. Write the biological Source, chemical constituents, identification tests and uses Agar and Starch.
12. What are the different classes of secondary metabolites and add a detailed note on tannins, with one crude drug.
13. Define Classification. Explain in detail about the various types of classification of crude drugs.
14. Explain the microscopical features and powder microscopy of Fennel fruit with neat labeled diagrams.
15. (a) Write pharmacognostic study of absorbent cotton. [6 Marks]
    (b) Write the chemical test for Honey and Gelatin. [4 Marks]
16. (a) Compare & contrast volatile oils and fixed oils with examples. [5 Marks]
    (b) Mention factors affecting the cultivation of medicinal plants. [5 Marks]
17. Define Drug evaluation. Explain in detail about morphological and Pharmacological evaluation.
18. (a) Explain in detail about the methods and factors for cultivation of Senna and Dioscorea. [7 Marks]
    (b) Write a short note on natural pesticides. [3 Marks]

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**Code No. F-7291**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 2024**
**Subject: Pharmaceutical Microbiology**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Define microbiology?
2. Write about spirochetes?
3. Write about Negative staining?
4. Write the composition and uses of nutrient agar medium?
5. Describe about sterilization by dry heat?
6. Explain the importance of booster dose?
7. Explain the classification of virus?
8. Write a note on acquired immunity?
9. Write causative factors and symptoms of syphilis?
10. Describe fungicidal agents with examples?

## 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. Explain in brief about antigen-antibody reactions?
13. Explain about growth and cultivation of bacteria?
14. Give an account on evaluation of preservatives in pharmaceutical preparations?
15. Write a short note on Schick's test and Mantaux test?
16. Explain different types of media?
17. Explain about microbiological assay of Streptomycin according to I.P.
18. Write a note on pathogenesis, lab diagnosis, treatment and prevention of

    (a) Malaria (b) Cholera.

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Library,G.Pulla Reddy College of Pharmacy, Hyderabad

**Code No: F-7140**

# FACULTY OF PHARMACY

**Pharm. D (6 YDC) II - Year (Instant) Examination, July 2024**

**Subject: Community Pharmacy**

**Time: 3 Hours** **Max.Marks:70**

## PART-A

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

1. What are the administrative activities of community pharmacist?
2. What are the objectives of layout?
3. List the various drug related problems.
4. Define reorder level.
5. What are the objectives of pharmaceutical care?
6. What is patient information leaflet?
7. Define medication adherence.
8. Define health screening.
9. Give the symptoms of diabetes.
10. Mention water soluble and fat soluble vitamins.

## PART-B

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

11. Describe in detail schedule N. Explain the method of codification in a community pharmacy outlet.

12. Give various reasons for medicines related problem with examples.

13. Explain any two inventory control techniques in detail used in community pharmacy outlet.

14. Explain principles of pharmaceutical care. What are the barriers of patient counselling?

15. What are the health screening services provided by a community pharmacist? Explain any one in detail.

16. Explain life cycle of HIV virus. Add a note on deficiency symptoms of water soluble vitamins.

17. What are the factors causing irrational use of drugs? How pharmacist can promote rational drug use?

18. How malaria can be treated and prevented? Add a note on role of community pharmacists in the prevention of communicable diseases.

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**Code No. F-7141**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II - Year (Instant) Examination, August 2024**

## Subject: Pharmacotherapeutics - I

**Time: 3 Hours** **Max. Marks: 70**

### PART – A

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

1. Enlist the types of Insulin Preparations with examples
2. Write a short note on Step wise Management for Asthma
3. Write a note on pathophysiology of closed-angle glaucoma
4. Define teratogenicity? Give examples of teratogens.
5. State the role of pharmacist in providing rational drug therapy
6. Elucidate about various types of Arrhythmias
7. What are the diagnostic tests for Glaucoma
8. Give the Classification of drugs used in the treatment of CCF
9. Differentiate between Bacterial and viral conjunctivitis
10. Classify antidiabetic drugs with examples

### PART – B

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

11. Discuss the etiology, clinical features, and management in therapy of Chronic Obstructive Pulmonary Disease.
12. Explain etiopathogenesis and management of Hypertension.
13. a) What are the precautions need to be taken for medication during Pregnancy and breast feeding?
    b) Explain the role of Pharmacist in rational use of drugs.
14. a) Discuss about hormone replacement therapy and its applications.
    b) Write a short note on thyroid inhibitors.
15. Compare and contrast Type 1 and Type 2 diabetes presentation, onset, progression, and pathophysiology.
16. What is Hyperlipidaemia? Write the pharmacological treatment for Hyperlipidaemia.
17. a) Write a note on Anabolic Therapy used in the treatment of osteoporosis.
    b) Explain anti-resorptive therapy in osteoporosis.
18. a) Write a brief note on Beer's criteria for prescribing geriatric population.
    b) Define Congestive cardiac failure. Discuss etiopathogenesis of CCF?

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**Code No: F-7139**

# FACULTY OF PHARMACY

**Pharm D (6 YDC) II - Year (Instant) Examination, July 2024**

**Subject: Pharmacology-I**

**Time: 3 Hours** **Max. Marks: 70**

## PART - A

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

1. Define and classify angina pectoris.
2. Describe the advantages and disadvantages of parenteral route.
3. Differentiate between local and general anaesthesia and its applications.
4. Write a note on Myasthenia gravis.
5. Mention different types of insulin and its uses.
6. Define and classify antihyperlipidemics.
7. Define expectorantsand antitussives with examples.
8. Explain pharmacokinetics in brief.
9. Write the pharmacology of diclofenac sodium.
10. Write a note on toxicity studies.

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## PART - B

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

11. Define and classify cholinergic blocking drugs and write the pharmacological actions of atropine.

12. Define and classify antihypertensives and write the pharmacological actions of losartan.

13. Define and classify oral antidiabetic agents and write the pharmacological actions of metformin.

14. Explain factors modifying efficacy of drugs in detail.

15. What is meant by drug drug interaction explain its types with suitable examples.

16. Define and classify antihistaminics and add a note on H2 blockers.

17. Define and classify calcium channel blockers with examples and mention its role in the management of angina pectoris.

18. Define and classify local anaesthetics and write the pharmacological actions of lignocaine.

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Library,G.Pulla Reddy College of Pharmacy, Hyderabad

**Code No: F-7138**

# FACULTY OF PHARMACY

**Pharm D (6 YDC) II - Year (Instant) Examination, July 2024**

**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) Alkaloids
2. Note on Ergastic Substances.
3. Write a note on cell inclusion.
4. Powder micro scopy of Clove.
5. Write a note on Sodium alginate.
6. Write the difference between Fixed Oil and Volatile oil.
7. Write the chemical test for Senna 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 Jute.

## PART - B

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

11. (a) Enumerate the classification of crude drugs, explain Pharmacological classification of crude drugs.
    (b) Briefly Write the Cultivation collection of Cinchona.

12. Define and classify Carbohydrates, write the source, active constituents and uses Agar, Tragacanth gum and Pectin.

13. (a) Define and classify Lipids with examples.
    (b) Write sources, active constituents and uses of Chaulmoogra Oil and Olive oil.

14. Write a Short note on (i) Hybridization (ii) Natural Pesticides

15. (a) Define and Classify Volatile oil, Explain one methods of Extraction of Volatile oil.
    (b) Write the sources, active constituents and uses ginger

16. Define and classify different types of Adulteration.

17. (a) Define and Classify Surgical Dressing add a note on Cotton.
    (b) Write the I P Methods of Analysis of Oil and Fats.

18. Draw a TS of Ephedra and Fennel.

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**Code. No: F-7136**

# FACULTY OF PHARMACY

**Pharm.D II - Year (6 YDC) (Instant) Examination, July 2024**

**Subject: Pathophysiology**

**Time: 3 Hours** **Max.Marks:70**

## PART-A

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

1. Define the terms atrophy and Hyperplasia.
2. Differentiate between Necrosis and Apoptosis.
3. Briefly write about components of immune system.
4. Write a note on abnormalities in Lipoproteinemia.
5. List out Chemical Mediators involved in inflammation.
6. Write the etiological factors involved in Cell Injury.
7. Write the deficiency symptoms of Vitamin B.
8. Explain pathogenesis of Typhoid fever.
9. Discuss Clinical Complications of Obesity.
10. Write pathogenesis of Dengue fever.

## PART-B

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

11. (a) Explain etiopathogenesis of inflammatory bowel disease.
    (b) Write a note on advanced Glycation End products.

12. Explain in detail Type II and Type III hypersensitivity reactions.

13. (a) Explain mechanism of Invasion and Metastasis in Neoplasia.
    (b) Write a note on $P_{53}$ gene.

14. (a) Explain Mechanism involved in Transplant rejection.
    (b) Write a note on Hepatitis.

15. (a) Explain pathogenesis of Acute Kidney Failure.
    (b) Write the pathophysiology of Asthma.

16. (a) Write the pathogenesis of Hypertension.
    (b) Write the pathogenesis of Type I Diabetes mellitus.

17. Explain Mechanism of Apoptosis with Neat labelled Diagram.

18. Explain Etiopathogenesis of SHOCK.

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# 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 classification of drugs in the management of arrythmiasis.
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 Hyperlipidaemia? 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.

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**Code No: E-12352**

# 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 Ctinchona
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 Ginger

## PART – B

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

11. (a) Enumerate the classification crude drugs, explain Chemical Classification of Crude drugs.
    (b) Briefly Write the Cultivation 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 methods of Extraction of Volatile oil
    (b) Write the sources, active constituents and uses 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.

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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 mantaux test.

16. Explain different types of media for the growth of microorganisms.

17. Explain about microbiological assay of Vitamin $B_{12}$ according to I.P.

18. Write a note on pathogenesis, lab diagnosis, treatment and prevention of
    (a) Hepatitis
    (b) Syphilis

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# FACULTY OF PHARMACY

**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.

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## 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 Neoplasia.

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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**Code No: E-12351**

# 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 mydriactics 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.

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## 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 antihypertensives 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

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 2022**

**Subject: Pharmacotherapeutics – I**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. What are the clinical features and diagnostic tools used in Hashimotos Disease?
2. Give the normal values of T3, T4 and TSH with its significance.
3. Write about the treatment of bacterial conjunctivitis.
4. Write about Oral contraceptive pills.
5. Differentiate extrinsic and intrinsic factors of Asthma?
6. What are the treatment options for acute exacerbations of COPD?
7. Explain the significance of Bisphosphonates in treating osteoporosis.
8. Write a note on Myxoedema coma.
9. Explain the glucose tolerance test.
10. Write the FDA pregnancy risk classification of drugs.

## PART – B

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

11. Describe the Role of clinical pharmacist in rational drug use.
12. (a) Explain the treatment for open angle glaucoma.
    (b) Explain the drug therapy for hyperlipidaemic conditions.
13. Classify Anti-hypertensive drugs and add a note on ACE inhibitors and calcium channel Blockers.
14. Define Asthma and explain in detail about pathophysiology involved asthma and add a note on Bronchodilators.
15. Define arrhythmias and classify Anti Arrhythmic drugs and explain detail about class III & IV agents.
16. Describe the general prescribing guidelines in Geriatrics.
17. Define CHF? Write Etiology, signs & symptoms, diagnosis & treatment of congestive cardiac failure.
18. Define osteoporosis? Describe in detail about pathophysiology and pharmacotherapy of osteoporosis.

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**Code No. D-8359**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 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. Add a note on Ergastic Substances.
3. Write a note on Cellulose.
4. Powder micro scopy of Nux vomica.
5. Write the sources, active constituents and uses of Olive Oil.
6. Chemical test for Flavonoids and alkaloids.
7. Write the sources, active constituents and uses of Honey.
8. Difference between organized and unorganized drugs.
9. Chemical test for carbohydrates and proteins.
10. Write the sources, active constituents and uses of Castor Oil.

## 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 of crude drugs.
12. Explain in brief Exo and Endo genius Factor Affecting Cultivation of crude drugs.
13. (a) Define and classify volatile oils with examples.
    (b) Write the sources, active constituents and uses of Clove and Cinnamon.
14. Write a short note on (i) Natural Pesticide (ii) Mutation.
15. (a) Define and classify Carbohydrates.
    (b) Define Adulteration and Types of Adulteration.
16. Draw T S of Ginger and Cinchona.
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.

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**Code No. D-8358**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, August 2022**

**Subject: Pharmaceutical Microbiology**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Write causative factors and symptoms of Hepatitis B?
2. Define toxins and toxoids with examples?
3. Explain the principle involved in gram staining by giving suitable examples for gram positive and gram negative organisms?
4. Define immunity and write about passive immunity?
5. Describe any two methods of dry heat sterilization?
6. Write about Ricketsiae?
7. Write the composition and uses of nutrient agar media?
8. Explain the importance of booster dose?
9. Explain the classification of fungi?
10. Define selective media and enriched media?

## PART – B

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

11. Explain different methods of enumeration of bacteria?
12. Explain about Microbiology assay on Streptomycin according to I.P.
13. Describe the evaluation of disinfectants by Redial – Walker and Chick – Martin test.
14. Explain about Schick's test and Elisa test?
15. Describe the causes, symptoms, treatment of Malaria by giving the life cycle of malarial parasite?
16. Describe briefly about Antigen-Antibody reactions?
17. Explain about the morphology and classification of bacteria with suitable examples?
18. Describe various methods of moist heat sterilization with neat diagram?

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**Code No. D-8357**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, August 2022**

**Subject: Pathophysiology**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Define the terms Metaplasia and 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 Neophasia?
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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**Code No. D-8361**

# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 2022**

**Subject: Community Pharmacy**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Define community pharmacist? Explain how drugs are stocked in a community pharmacy outlet.
2. Define prescription? Explain legality of the prescription?
3. What do you mean ABC analysis?
4. What are the principles of pharmaceutical care?
5. What are the contents and how will you design patient information leaflets.
6. Explain the factors affecting medication adherence.
7. What do you mean by health screening by community pharmacist and how community pharmacists can perform diabetic screening?
8. Explain the clinical presentation of leprosy.
9. Describe pathophysiology of worm infestations.
10. Define Pain. What are the common drug therapy for pain?

## PART – B

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

11. What is schedule N? Explain coding of drugs in a community pharmacy and how various registers are maintained in community pharmacy?
12. What are the various methods of inventory control? Explain in detail EOQ.
13. Define medication adherence. What is the role of pharmacist in promoting medication adherence?
14. Define OTC medication. Explain OTC drug counselling of NSAIDs, External antifungal preparations, cough and cold preparations.
15. Define health. How Health promotion activities are carried out by a community pharmacist for pregnant and breast feeding women?
16. Describe clinical presentation and prevention of Tuberculosis and syphilis.
17. What is the role of pharmacist in promoting rational use of drugs in the community?
18. What are the different methods of family planning? Explain any three methods in detail?

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# FACULTY OF PHARMACY

**Pharma. D (6 YDC) II Year (Main & Backlog) Examination, September 2022**
**Subject: Pharmacology – I**

**Time: 3 Hours** **Max. Marks: 70**

## PART – A

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

1. Explain in brief about Idiosyncrasy.
2. Write a note on Anti-tussives.
3. Write the Physiological role of Histamine.
4. Write the mechanism of action of Aspirin.
5. Explain the mechanism of action of barbiturates.
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. What are the actions of oxytocin?
10. Name the drugs used in Myasthenia Gravis.

## PART – B

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

11. Explain the factors modifying drug action.
12. Classify anti-hypertensive with examples. Explain in detail about any two classes of anti-hypertensives.
13. (a) Classify anti-anginal drugs with examples.
    (b) Write the pharmacology of quinidine.
14. Write the classification of β-blockers. Explain the mechanism of action, adverse effects and therapeutic uses of any two drugs.
15. (a) Define Parkinsonism and write the treatment in detail.
    (b) Write a note on Neuromuscular blocking agents.
16. Classify drugs used for bronchial asthma. Explain in detail the pharmacology of drugs used in the treatment of bronchial asthma.
17. (a) Classify NSAIDS (Non – Steroidal Anti – inflammatory Drugs) with examples. Explain in detail about any one drug.
    (b) Write a note on general anesthetics.
18. (a) Write the pharmacological actions of phenytoin.
    (b) Explain in brief about H2-receptor antagonists.

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# 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 Hypothyrodism?
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

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# 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 $B_{12}$.
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.

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# 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 asper 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.

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# 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.

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**Code No.D-8031**

# 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) Isoeletric 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.

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# 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.

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# 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

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# 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 metastatis?
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.

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# 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?

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# 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.

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# 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.

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# 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.

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**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.

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**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.

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# 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.

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**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) Isoeletric 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.

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**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 $FEV_1$ & 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 $T_3$, $T_4$ 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.

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# FACULTY OF PHARMACY

**Pharm-D(6-YDC) II-Year (Main & Backlog) Examination, December 2020**

**Subject : Pharmaceutical Microbiology**

**Time: 2 Hours** **Max. Marks: 70**

## PART- A

**Note: Answer any Six questions.** **(6x5=30 Marks)**

1 Write short notes on Koch's Postulates

2 Write about Rickettsiae

3 Explain growth phase of Bacteriophage

4 Write about kingdom Monera

5 Explain passive agglutination

6 Write causative organism and mode of transmission of meningitis.

7 Define Bacteriostatic and Bacteriocide

8 Write the principle involved in simple staining technique

9 Write the composition of Nutrient agar Medium.

10 Write about Lyophilization.

## PART- B

**Note: Answer any Four questions.** **(4x10=40 Marks)**

11 Write in detail about contributions of Robert Koch and Louis Pasture in the field of Microbiology.

12 What is growth? Explain different phases of growth of bacteria and synchronous growth.

13 Explain different methods of isolation of Aerobic and Anerobic bacteria and explain viable count method.

14 Explain different methods of Heat sterilization.

15 Explain Evaluation of disinfectants by Redial – Walker and Chick – Martin test.

16 Explain about Humoral and cell mediated Immunity.

17 Explain about western blotting and southern blotting techniques.

18 Explain about Microbiological assay of Penicillin according to I.P.

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# FACULTY OF PHARMACY

**Pharm-D(6-YDC) II-Year (Main & Backlog) Examination, December 2020**

**Subject : Patho physiology**

**Time: 2 Hours** **Max. Marks: 70**

## PART- A

**Note: Answer any Six questions.** **(6x5=30 Marks)**

1 Write the deficiency symptoms of vitamin D

2 Discuss the mechanism involved in rejection of allograft.

3 Mention the abnormalities in lipoproteinaemia.

4 Write the symptoms in irritable bowel syndrome.

5 Define the terms of Invasion and metastasis.

6 Explain the types of shocks with mechanism.

7 Discuss the pathophysiology of tuberculosis.

8 Write the clinical features of chronic renal failure.

9 Write the biological effects of radiation.

10 Explain the factors influencing healing of wounds.

## PART- B

**Note: Answer any Four questions.** **(4x10=40 Marks)**

11 What are different types of chronic inflammation? Discuss in detail about cellular events in a chronic inflammation.

12 Describe the structure of MHC (Major histocampatability complex) with a neat labelled diagram.

13 Write a note on pathogenesis of **i)** Hypertension **ii)** stroke.

14 Mention different autoimmune disorders. Discuss the Pathogenesis of Asthma & 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 Starvation and obesity.

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# FACULTY OF PHARMACY

**Pharm-D (6-YDC) II-Year (Main & Backlog) Examination, December 2020**

**Subject : Pharmacotherapeutics-I**

**Time : 2Hours** **Max. Marks: 70**

## PART-A

**Note : Answer any Six questions** **(6 x 5 = 30Marks)**

1 What is Tidal volume and Force Expiratory volume.

2 Define Rational use of drugs.

3 Differentiate COPD and Asthma.

4 Classify hypertension according to JNC-7.

5 Write about the role of incretins in Diabetes Mellitus.

6 Give the formulas for dose calculations in Paediatric population.

7 List out the thyroid profile tests with their normal values.

8 Write a note on different types of Myocardial Infarction.

9 What are the functions of estrogen & progesterone?

10 Write about cardiac glycosides.

## PART-B

**Note : Answer any Four questions** **(4x10 = 40Marks)**

11 Write about the treatment of DM-II in detail.

12 Describe the general prescribing guidelines in Geriatrics.

13 a) Discuss about hormone replacement therapy & its applications.
b) Define glaucoma and write its pharmacotherapy.

14 a) Discuss the role of pharmacist in rational use of injectables.
b) Explain the pharmacotherapy of asthma.

15 a) Write about Drug induced pulmonary diseases.
b) Explain the treatment of hypothyroidism.

16 a) List out the symptoms & pharmacotherapy of unstable Angina.
b) Explain the etiopathogenesis of Osteoporosis.

17 Discuss the etiopathogenesis and treatment of hyperlipidaemias.

18 a) Write about Renin Angiotensin Aldosterone System.
b) Explain the pharmacotherapy of Arrhythmias.

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# FACULTY OF PHARMACY

**Pharm-D (6-YDC) II-Year (Main & Backlog) Examination, December 2020**

**Subject : Community Pharmacy**

**Time : 2 Hours** **Max. Marks: 70**

## PART-A

**Note : Answer any Six questions.** **(6x5=30 Marks)**

1 What are the objectives of stocking?

2 What do you mean by lead time?

3 Mention two counselling information while dispensing anti TB drugs.

4 How prescriptions are handled?

5 What is rational use of medicines?

6 Write the clinical manifestations of typhoid.

7 Define OTC medication.

8 What is schedule N?

9 Define community pharmacy.

10 Define health according to WHO.

## PART-B

**Note : Answer any Four questions.** **(4x10=40 Marks)**

11 Give the principles of practice of pharmacy. Reproduce the pharmacy oath as per pharmacy council of India?

12 Explain various types of Inventory control techniques used for the procurement of medicines.

13 Define pharmaceutical care? What are roles and responsibilities of community pharmacists in providing pharmaceutical care?

14 Explain pathophysiology, symptoms and prevention of malaria.

15 a) Write a note on various records to be maintained in retail medical store.
b) What are the roles and responsibilities of community pharmacist.

16 What are the various parts of the prescription? Explain the legality of prescriptions?

17 What are the barriers of counselling? Explain different stages of counselling

18 Explain pathophysiology and drug therapy to worm infestations and diarrhea?

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# FACULTY OF PHARMACY

**Pharm - D (6-YDC) II-Year (Main & Backlog) Examination, December 2020**

**Subject :Pharmacology-I**

**Time : 2 Hours** **Max. Marks: 70**

## PART-A

**Note : Answer any Six questions.** **(6x5=30 Marks)**

1 Explain in brief about Tachyphylaxis
2 Write a note on Anti-tussives.
3 Differentiate between general anaesthetics and local anaesthetics.
4 Describe the mechanism of action of Morphine
5 Classify anti-arrhythmic agents.
6 Give two examples of Phase-II reactions/Conjugation Reactions.
7 Define Anti-Psychotic drugs. Give examples.
8 Enlist the drugs used to treat Myasthenia gravis.
9 Explain the pharmacological actions of Prostaglandins.
10 Discuss the significance of cognition enhancers.

## PART-B

**Note : Answer any Four questions.** **(4x10=40 Marks)**

11 Classify Symphathomimetics with examples. Write the pharmacological actions, adverse effects and therapeutic uses of any two classes of drugs.

12 a) Classify NSAIDs. Explain the mechanism of action of Aspirin and paracetamol.
b) Write a note on Mood stabilizers.

13 a) Explain in detail about treatment for Organophosphorus poisoning
b) Describe in detail about factors modifying drug action

14 a) Describe the drug therapy for Congestive Hear Failure (CHF)
b) Classify Anti-anginal agents

15 Write the classification of β-blockers. Explain the mechanism of action, adverse effects and therapeutic uses of any two drugs.

16 a) Classify the drugs used in the treatment of Asthma.
b) Write a note on Expectorants and Nasal decongestants

17 Define Oral Hypoglycaemic agents? Classify them with examples. Write the mechanism of action of any three classes of drugs.

18 a) Classify anti-histamines with examples. Write the pharmacological actions, adverse effects and therapeutic uses of any two drugs.
b) Write a note on 5-$HT_3$, antagonists.

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# FACULTY OF PHARMACY

**Pharm-D (6-YDC) II-Year (Main & Backlog) Examination, December 2020**

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time : 2 Hours** **Max. Marks: 70**

## PART-A

**Note : Answer any SIX questions.** **(6 x 5=30 Marks)**

1 Define **i)**Pharmacognosy**ii)** Crude drugs

2 Note on Ergastic substances.

3 Define **i)** Denaturation**ii)**Isoelectric point.

4 Powder micro scopy of Podophyllum.

5 Write a note on Natural pesticides.

6. Chemical test for Senna and Starch.

7 Sinoda Test and Baljet test.

8 Powder micro scopy of Cinnamon. Microscopy

9 Write the sources, active constituents and uses of Honey.

10 Differences between Gums and mucilage.

## PART-B

**Note : Answer any FOUR questions.** **(4x10=40 Marks)**

11 a) Enumerate the classification crude drugs, explain Pharmacological Crude drugs.
b) Write the Cultivation collection of Cinchona.

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 Agar and Starch

14 Explain different methods of adulteration of crude drugs.

15 a) Define and Classify Volatile oil, Explain one methods of Extraction of Volatile Oil.
b) Write the sources, active constituents and uses Ginger.

16 Draw T S of Clove and Fennel.

17 a) Define and Classify Surgical Dressing add a note on Cotton.
b) Write the I P methods of Analysis of Lipids.

18 a) Define and classify Protein, chemical test for Protein.
b) Write the Estimation of Protein.

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# FACULTY OF PHARMACY

## Pharm D (6-YDC) II-Year (Instant) Examination, February 2020

## Subject : Pharmaceutical Microbiology

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

**PART- A (10x2 = 20 Marks)**

Write about :

1. Antiseptics
2. Booster dose
3. Differences between Exotoxins and Endotoxins
4. Negative Staining
5. Fungi
6. Photo Lithotrophs
7. Macconkey's media
8. Generation time
9. Schick's test
10. Pastcurization

**PART-B (5X10 = 50 Marks)**

11. a) Discuss the importance of microbes in medical microbiology 4
    b) Write a brief note on the contribution of Pasteur in history and development of microbiology. 6

12. a) Write the general characteristics of viruses 4
    b) Write a note on cultivation of acerbic bacteria 6

13. a) Describe the general methods of classification of bacteria 5
    b) Explain the methods and techniques used in bacterial and viral incineration. 5

14. a) Discuss the various methods of sterilization of pharmaceutical products 6
    b) Write about sterility testing 4

15. a) What are disinfectants. Explain the mechanism of action of common disinfectants 7
    b) Write any one evaluation test for disinfectants 3

16. a) Write a note on the structure of antibody 3
    b) Give an account on various antigen-antibody reactions 7

17. Write the principle and procedure for microbial assay of antibiotics as per I.P 10

18. Write a short note on: 10
    a) Cholera
    b) Hepatitis

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# FACULTY OF PHARMACY

## Pharm D (6-YDC) II-Year (Instant) Examination, February 2020

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

### PART- A (10x2 = 20 Marks)

1. Write the scope of Pharmacognosy.
2. Define the terms crude drug and adulteration.
3. Write note on storage of crude drugs.
4. Write the functions of plant cell wall.
5. Give the general microscopic characters of a leaf drug.
6. Give the powder microscopic characters of clove flower bud.
7. Write two chemical tests for carbohydrates.
8. Name different analytical parameters for fats and oils.
9. Write the classification of proteins.
10. Write the functions of surgical dressings.

### PART-B (5x10 = 50 Marks)

11. a) Explain morphological and chemical classification of crude drugs with suitable examples. 5
    b) Write a note on factors effecting cultivation of crude drugs. 5

12. a) Write about different non-living cell inclusions (ergastic substances). 4
    b) Explain the microscopic features fennel fruit with a neat labelled diagram. 6

13. a) What are natural pesticides? Write about any one natural pesticide. 5
    b) What is aseptic propagation? Write its advantages. 5

14. a) Explain the importance of different plant growth regulators. 6
    b) Write the biological source, chemical constituents and uses of any one Volatile oil yielding crude drug. 4

15. Write the pharmacognostic details of tragacanth. 10

16. a) Write BS, CC and uses of shark liver oil and bees wax. 6
    b) Write a note on analysis of lipids. 4

17. a) What are glycosides? Classify glycosides. 5
    b) What are tannins? Classify tannins with suitable examples. 5

18. a) Explain adulteration of crude drugs. 7
    b) Write BS, CC and uses of a natural fibre yielding crude drug. 3

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# FACULTY OF PHARMACY

## Pharm D (6-YDC) II-Year (Instant) Examination, February 2020

## Subject : Pharmacology – I

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

### PART- A (10x2 = 20 Marks)

1. Write the Biphasic response of Adrenaline
2. Classify Beta Blockers with examples.
3. Write the Physiological role of Histamine
4. Write a note on Anti – diuretic Hormone (ADM)
5. How do you do Pre – CLINICAL Evaluation
6. Write the treatment for Glaucoma
7. Write the mechanism of action of clofibrate
8. Write a note on oral Contraceptives
9. Write about the 5-MT (5-hydroxy tryptamine) Antagonists.
10. Write the metabolism of Alcohol

### PART-B (5X10 = 50 Marks)

11. Classify Anti – cholinergic drugs with example. Write the pharmacological auctions, adverse effects and therapeutic uses of Atropine 10

12. a) Classify oral hypoglycemic agents. Explain in detail about any two classes of drugs 6
    b) Write the actions of oxytocin 4

13. a) Write the synthesis, pharmacological actions and adverse effects of Histamine 6
    b) Write a note on platelet activating factor 4

14. Explain in detail about the Biotransformation reactions. 10

15. a) Define parkinsonism and write the treatment in detail. 6
    b) Write a note on Neuromuscular blocking agents 4

16. a) What are cardiac glycosides? Write the pharmacological actions and therapeutic uses of them in detail 6
    b) Write about the role of Diuretics in Hypertension 4

17. a) What are opioid analgesics? Classify with examples. Write the pharmacological actions of morphine 5
    b) Write a note on cognition enhancers 5

18. a) Define a receptor. Write in detail about different types of receptors. 6
    b) What factors influence the absorption of a drug 4

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# FACULTY OF PHARMACY

**Pharm D (6-YDC) II-Year (Instant) Examination, February 2020**

**Subject : Community Pharmacy**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

## PART- A (10x2 = 20 Marks)

1) Give the WHO definition of Health.
2) Define prescription. Write the parts of prescription.
3) List out four commonly used NSAIDS.
4) Define ABC and VED.
5) Write the drug therapy for worm's infestations.
6) Write the causative agents for syphilis and gonorrhea.
7) Define Lead time and Safety stock.
8) Define Idiosyncrasy.
9) Define pharmaceutical care.
10) Define Inventory control.

## PART- B (5x10 = 50 Marks)

11) Write about the causative agents, clinical presentation and prevention of
    (a) Tuberculosis **5**
    (b) Leprosy **5**

12) Write the pathophysiology, common drug therapy to following ailments
    (a) Vomiting **5**
    (b) Pyrexia **5**

13) (a) Write a note on the various barriers to patient counselling and the strategies to overcome them. **5**
    (b) Explain EOQ model with an example. **5**

14) Describe the methods for screening of
    (a) Cholesterol **5**
    (b) Lung function **5**

15) (a) Explain the role of pharmacist in rational drug therapy. **5**
    (b) Explain various registers used in community pharmacy management. **5**

16) (a) write a note on use of computers in community pharmacy. **5**
    (b) Write about pharmacist in relation to his job and profession **5**

17) Write in detail about Pharmaceutical care. **10**

18) Define patient medication Adherence. Explain the role of pharmacist in improving the adherence. **10**

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# FACULTY OF PHARMACY

**Pharm D (6-YDC) II-Year (Instant) Examination, January 2020**

**Subject : Pathophysiology**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

## PART- A (10x2 = 20 Marks)

1) Define the terms Hyperplasia and Metaplasia? 2
2) Write the formation of Advanced Glycation End products? 2
3) Write a short note on Wound Healing? 2
4) Write a note on Prostaglandins involved in inflammation? 2
5) Write a note on MHC antigens? 2
6) Write the deficiency symptoms of Vitamin D? 2
7) Explain pathphysiology of Starvation? 2
8) Discuss Clinical complications of Diabetes mellitus? 2
9) Briefly write about components of Immune system? 2
10) Write pathogenesis of Peptic ulcer disease? 2

## PART- B (5x10 = 50 Marks)

11) a) Explain etiopathogenesis of Hypertension? 7
b) Write a note on Glycogen Storage diseases? 3

12) Explain in detail Type III and Type IV Hypersensitivity reactions? 10

13) a) Explain mechanism involved in Transplant rejection? 7
b) Write a note on Auto Immunity? 3

14) Explain Pathogenesis of Acute Inflammation? 10

15) a) Explain pathogenesis of Tuberculosis? 4
b) Explain Invasion and Metastasis involved in Neoplasia? 6

16) Explain etiopathogenesis of AIDS 10

17) a) Write the pathogenesis of CHF? 5
b) Write the pathogenesis of Type II Diabetes mellitus? 5

18) Write a note on types of Cell Death? Explain Mechanism involved in Apoptosis with Neat labelled Diagram? 10

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# FACULTY OF PHARMACY

**Pharm D (6-YDC) II-Year (Instant) Examination, February 2020**

**Subject : Pharmacotherapeutics-I**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

## PART- A (10x2 = 20 Marks)

1 What is Hypertensive crisis?

2 Write a note on significance of Omega -3 fatty acids in dyslipidaemia.

3 What is the difference between Right Sided and Left sided heart failure?

4 Define Torsade de pointes.

5 What is Lactic acidosis, which antidiabetic agents can cause this effect?

6 Define chronic bronchitis and emphysema.

7 Define thyrotoxicosis.

8 What are the indications of Hormone Replacement Therapy (HRT)?

9 Give any four examples of drugs which are contraindicated during pregnancy.

10 What is the role of ACE inhibitors in Proteinuria?

## PART- B (5x10 = 50 Marks)

11 a) Define Rationale use of Drugs and add a note on role of pharmacist. 6
b) Explain in detail about Bacterial Conjunctivitis. 4

12 What is New York Heart Association (NYMA) classification of Heart failure, write a role on Digitalis glycosides and Vasodilators. 10

13 Classify Anti Arrhythmic drugs and explain in detail about class III & IV agents. 10

14 a) Write a note on Incretin based therapy. 4
b) Based on the duration of action, classify and explain different insulin analogues. 6

15 Explain in detail about pattophysiology involved asthma and add a note on Bronchodilators. 10

16 a) How pulmonary function testing can be evaluated by using spinometry 5
b) What are the treatment options for acute exacerbations of COPD? 5

17 Write in detail about prescribing guidelines of pediatric patients on the basis of pharmacokinetic parameters 10

18 Describe in detail about pathophysiobgy and pharmacotherapy of osteoporosis.

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# FACULTY OF PHARMACY

**Pharm D (6-YDC) II-Year (Main & Backlog) Examination, June/July 2019**

**Subject : Pharmacology – I**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

**PART- A (10x2 = 20 Marks)**

1. Elaborate Dale's Vasomotor reversal of adrenaline
2. Classify alpha lockers with examples
3. Write the pharmacological actions of serotonin
4. Write the mechanism of action of Aspirin
5. Write in brief about mucolytics in detail
6. Write a note on Insulin preparations
7. Classify different routes of a administration
8. Explain in brief about tachyphylaxis
9. Write a note on metformin
10. Write the mechanism of action of opioid analgesics

**PART-B (5X10 = 50 Marks)**

11. Classify Adrenergic drugs with examples. Write the pharmacological actions, adverse effects and therapeutic uses of any one drug. 10

12. a) What are Bronchodilators? Classify with examples. Write a note on salbutamol 6
    b) Write in brief about nasal decongestants 4

13. Explain about the factors modifying the drug action 10

14. a) What are anti – hypertensives? Classify with examples. Write in detail about any two classes of drugs 6
    b) How do you treat hyperlipidaemia 4

15. a) Write about the Toxicity studies in detail 5
    b) Explain in brief about Drug – drug interactions 5

16. a) Classify sedative and Hypnotics with examples. Write about any 2 drugs in details 7
    b) Write a note on local anesthetics 3

17. a) Classify NSAIDS (Non – steroidal Anli – inflammatory Drugs) with examples. Explain in detail about any one drug 5
    b) Write a note on general anesthetics 5

18. a) Classify Anli-Histamines with examples. Write the Pharmacological actions, adverse effects and therapeutic uses of any one drug 6
    b) Write a note on thyroid disorders 4

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# FACULTY OF PHARMACY

## Pharm D (6-YDC) II-Year (Main & Backlog) Examination, June 2019

## Subject : Pathophysiology

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

### PART- A (10x2 = 20 Marks)

1) Define the terms Hypertrophy and Hyperplasia? 2
2) Differentiate between Necrosis and Apoptosis? 2
3) Write a note on abnormalities in Lipoproteinaemia. 2
4) List out Chemical Mediators involved in inflammation? 2
5) Write the etiological factors involved in Cell Injury? 2
6) Write the deficiency symptoms of Vitamin B? 2
7) Explain pathogenesis of Typhoid fever? 2
8) Discuss Clinical Complications of Obesity? 2
9) Briefly write about components of immune system? 2
10) Write pathogenesis of malaria? 2

### PART- B (5x10 = 50 Marks)

11) a) Explain etiopathogenesis of inflammatory bowel disease? 7
    b) Write a note on advanced Glycation End products? 3

12) Explain in detail Type II and Type III hypersensitivity reactions? 10

13)(a) Explain mechanism of Invasion and Metastasis in Neoplasia? 7
    (b) Write a note on $p_{53}$ gene? 3

14) Explain Etiopathogenesis of SHOCK? 10

15)(a) Explain Mechanism involved in Transplant rejection? 6
    (b) Write a note on Hepatitis? 4

16) a) Explain pathogenesis of Acute Kidney Failure? 6
    b) Write the pathogenesis of Asthma? 4

17) a) Write the pathogenesis of Hypertension? 5
    b) Write the pathogenesis of Type I Diabetes mellitus? 5

18) Write a note on types of Cell Death? Explain Mechanism involved in Apoptosis with Neat labelled Diagram? 10

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**FACULTY OF PHARMACY**

**Pharm D (6-YDC) II-Year (Main & Backlog) Examination, June 2019**

**Subject : Pharmaceutical Microbiology**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

**PART- A (10x2 = 20 Marks)**

**Write about:**

1. Spirochetes
2. Lithotrophs
3. Differential Staining
4. Tyndallization
5. Sterilization
6. Widal test
7. Active immunity
8. Selective media
9. Synchronous and Continuous growth
10. Food Microbiology

**PART-B (5X10 = 50 Marks)**

11. a) Write about fungi
    b) Discuss about microbes importance in Industrial microbiology.
12. a) Write different methods of microbial classification
    b) Differentiate between gram 't' ve and gram'-' ve bacteria
13. a) Discuss the physical methods of steritization 5
    b) Write in brief about the validation of sterilization processes. 5
14. Explain various methods of
    a) Solation of bacteria 5
    b) Preservation of pure cultures 5
15. a) Write about different fungicidal agents with their mode of action.
    b) Give an account on evaluation of disinfectants,.
16. Write a note on
    a) Blotting techniques 3
    b) Microbiological assay of antibiotic – penicillin 7
17. a) Write the preparation and standardization of any one bacterial vaccine 5
    b) What are serological reactions. Write about Radio immune assay. 5
18. Write a note on pathogenesis, lab diagnosis treatment and prevention of
    a) HIV 5
    b) Malaria 5

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# FACULTY OF PHARMACY

## Pharm D (6-YDC) II-Year (Main & Instant) Examination, July 2019

## Subject : Pharmacotherapeutics-I

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

### PART- A (10x2 = 20 Marks)

1 Define orthostatic hypotension.
2 Write a note on Digitalis toxicity.
3 What is the role of Renin inhibitors in controlling hypertension?
4 Write a note on different types of Angina.
5 What are Insulin sensitisers, give any two examples?
6 What are the different stages at acute exacerbations of COPD.
7 Give any four differences between Propylthianacil.
8 Write a note on Residual Volume and Tidal Volume.
9 Explain Thalidomide disaster.
10 What is the role of α– glucosidase intribitors in controlling diabetes Mellitus?

### PART- B (5x10 = 50 Marks)

11 Classify Anti hypertensive drugs and add a note on ACE inhibitors and calcium channel Blockers. 10

12 a) Explain in detail about biochemical markers in detecting MI. 6
b) Write a note on Fibrindytic therapy. 4

13 a) What are the complications of DM II. 4
b) What is diabetic Ketoacidosis? And add a note on its management. 6

14 a) Describe in detail about Drug induced pulmonary disorders. 5
b) What are the different devices used for inhaled medicines in Asthma? 5

15 Write in detail about prescribing guidelines of geriatric patients based on their pharmacokinetic parameters. 10

16 What are the different types of glaucoma and explain in detail about its treatment? 10

17 a) Write a note on oral contraceptive pills. 5
b) Explain the Significance of Bisphosphonates in treating osteoporosis 5

18 a) Explain in detail about essential drug concept. 6
b) What are the different issues concerned with pregnancy. 4

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# FACULTY OF PHARMACY

## Pharm D (6-YDC) II-Year (Main & Backlog) Examination, July 2019

## Subject : Community Pharmacy

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

### PART- A (10x2 = 20 Marks)

1) Define EOQ.
2) What is C-prescription.
3) Define Code of Ethics.
4) Write the drug therapy for Constipation.
5) Define OTC medication. Write at least two examples.
6) Define Balance diet. Write the composition of Balance diet.
7) Define Coding and Stocking.
8) List out the various factors to be considered during selection of appropriate site for community pharmacy.
9) What is Bin card system in inventory control?
10) Define community pharmacy.

### PART-B (5x10 = 50 Marks)

11) Write about the causative agents, clinical presentation and prevention of
    (a) Amoebiasis **5**
    (b) Malaria **5**

12) Write the pathophysiology, common drug therapy to
    (a) Worms infestations. **5**
    (b) Dyspepsia. **5**

13) (a) Explain the roles and responsibilities of community pharmacist. **5**
    (b) Write the legal requirements for the establishment of retail drug store. **5**

14) (a) Write the role of pharmacist in family planning. **5**
    (b) Write the essential principles of pharmaceutical care. **5**

15) (a) Define and describe various factors affecting medication adherence. **5**
    (b) Write a note on the use of computers in community pharmacy **5**

16) (a) Define the prescription. Write a note on the parts of prescription and their legality. **5**
    (b) Write about screening of B.P. **5**

17) Define rational drug use (RDU).Explain the role of pharmacist in improving RDU. **10**

18) Define Inventory control. Explain the various methods of Inventory control. **10**

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# FACULTY OF PHARMACY

**Pharm D (6-YDC) II-Year (Main & Backlog) Examination, June 2019**

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time: 3 Hours** **Max. Marks: 70**

**Note:** Answer all Questions from Part-A, Answer any Five Questions from Part-B.

## PART- A (10x2 = 20 Marks)

1. Define the terms Pharmacognosy and Crude drug.
2. Write the advantages of cultivation of crude drugs.
3. Write the components and functions of plant cell wall.
4. Give the general microscopic characters of a bark drug.
5. Give the powder microscopic characters of senna leaf let.
6. Write two chemical tests for tannins.
7. Name different analytical parameters for fats and oils.
8. Write biological source and uses of bees wax.
9. Write a note on gelatine.
10. Write the functions of surgical dressings.

## PART-B (5X10 = 50 Marks)

11. a) Write taxonomical and pharmacological classification of crude drugs. 6
    b) Write the functions of various organelles of a plant cell. 4

12. Explain the cultivation, collection, processing and storage of crude drugs briefly. 10

13. a) Explain the microscopic characters of clove flower bud with a neat labelled diagram. 5
    b) Explain the microscopic characters of ephedra stem with a neat labelled diagram. 5

14. a) What are natural pesticides? Write about any one natural pesticide. 5
    b) What are alkaloids? Write the chemical tests for alkaloids. 5

15. Write notes on Honey and starch. 10

16. a) Write the chemical tests for identification of carbohydrates. 5
    b) Write different tests for analysis of oils and fats. 5

17. Write BS, method of preparation, cc and uses of shark liver oil and cocoa butter. 10

18. a) Write BS, preparation and uses of absorbent cotton. 6
    b) What is adulteration? Mention different types of adulteration. 4

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# FACULTY OF PHARMACY

## Pharm D (6–YDC) II – Year (Main&Backlog) Examination, August 2018

## Subject: Pharmacotherapeutics – I

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Any Five questions from Part – B.**

**PART – A (10x2 = 20 Marks)**

1 List out the secondary causes of hypertension.
2 What are the signs and symptoms of right sided heart failure?
3 What are the 3 characteristic features of angina?
4 Classify antiarrhythmic drugs.
5 Define forced vital capacity and give the significance of FEV1/FVC.
6 Distinguish the features of inflammation between asthma and COPD.
7 Give any four examples of teratogenic drugs along with their complications.
8 Write the causative organisms for bacterial conjunctivitis.
9 Write a note on essential drug concept.
10 Write briefly about various tests to evaluate thyroid function.

**PART – B (50 Marks)**

11 a) Classify antihypertensive agents and discuss briefly their role in the management of hypertension. 7
b) Discuss the role of hormone replacement therapy in post-menopausal women. 3

12 a) Write the algorithm for management of stage A and B heart failure. 6
b) What are the life style modifications for management of Dyslipidaemia? 4

13 a) Write the algorithm for management of NSTEMI. 7
b) Write a note on prevention of viral conjunctivitis. 3

14 a) Explain the role of DPPIV inhibitors and SGLT2 inhibitors in management of diabetes mellitus. 6
b) Write a note on glucocorticoid induced osteoporosis. 4

15 a) Explain the role of beta agonists in management of asthma. 7
b) Give any four examples of drugs that cause pulmonary diseases. 3

16 a) Explain the pharmacology of antithyroid drugs. 6
b) Write a note on oral contraceptives. 4

17 a) Explain the alteration of the distribution of drugs in pediatrics. 5
b) Explain transplacental drug transfer. 5

18 Explain the role of pharmacist in rational use of drugs. 10

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# FACULTY OF PHARMACY

**Pharm D (6–YDC) II – Year (Main & Backlog) Examination, July 2018**

**Subject: Pharmacology – I**

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Any Five questions from Part – B.**

## PART – A (10x2 = 20 Marks)

1 What is meant by Biphasic response of adrenaline?
2 Write about the disadvantages of parenteral route of administration.
3 Define the terms – Tachyphylaxis and synergism.
4 Write in brief about the pathophysiological role of histamine.
5 How do you treat schizophrenia?
6 Explain the mechanism of action of barbiturates.
7 Write the therapeutic uses of beta blockers.
8 Classify alpha – blockers with examples.
9 What are the actions of oxytocin?
10 Write a note on 5-$HT_2$ antagonists.

## PART – B (50 Marks)

| | | | |
|---|---|---|---|
| 11 | a) | Classify anti-hypertensives with examples. | 5 |
| | b) | Explain in detail about any two classes of anti-hypertensives. | 5 |
| 12 | a) | Write the pharmacological action of isoprenaline. | 5 |
| | b) | Write a note on organophosphorus poisoning and treatment. | 5 |
| 13 | | Explain in brief about anti-arrhythmic drugs. | |
| 14 | a) | Write about the thyroid disorders. | 4 |
| | b) | Classify anti-thyroid drugs with examples. Explain any two classes of drugs. | 6 |
| 15 | | Explain in detail about the drugs used in bronchial asthma. | 10 |
| 16 | a) | What are non-opioid analgesics? Classify the drugs with examples. | 5 |
| | b) | Write the pharmacological actions of aspirin. | 5 |
| 17 | a) | Explain in detail about the general anaesthetics. | 7 |
| | b) | Write about the actions of alcohol. | 3 |
| 18 | a) | Write the pharmacological actions of phenytoin. | 5 |
| | b) | Explain in brief about $H_2$-receptor antagonists. | 5 |

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# FACULTY OF PHARMACY

## Pharm D (6–YDC) II – Year (Main & Backlog) Examination, July 2018

## Subject: Pharmacognosy & Phytopharmaceuticals

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Any Five questions from Part – B.**

### PART – A (10x2 = 20 Marks)

1 Mention the biological role of proteins.
2 List out different extraction methods of fixed oil. Explain any one.
3 Write a note on:
   i) Scarcification
   ii) Isoelectric point
4 Mention any two general identification tests for alkaloids.
5 Write about carbohydrate derived products with examples.
6 Mention the biological sources and uses of cod liver oil.
7 List out different types of vegetative propagation of crude drugs with examples.
8 Define adulteration. What are different methods of evaluation of crude drugs?
9 Write about:
   a) Shinoda test
   b) Enfleurage
10 What are “Bitters”? Give examples.

### PART – B (50 Marks)

11 a) Write a note on factors affecting cultivation of crude drugs with example. 6
   b) Discuss morphological and taxanomical method of classification of crude drugs with examples. 4

12 a) Define acid value. Give the principle, significance and method to determine. 6
   b) Differentiate fixed oil and volatile oil. 4

13 a) Explain briefly “lignin and pectin” as cell wall constituents. 6
   b) Define and classify glycosides with examples. 4

14 a) Discuss the structure of protein. 6
   b) List out different methods of adulteration with examples. 4

15 Explain different methods of plant breeding with their application. 10

16 Explain the microscopical characters of:
   i) Cassia 5
   ii) Coriander 5
   with neat labelled diagram.

17 a) Define and classify natural fibres used in surgical dressings. Give the biological source, chemical constituents and uses of cotton. 6
   b) Write about “Neem” as a pesticide.

18 Write the biological source, chemical constituents and uses of
   i) Tragacanth
   ii) Asafoetida
   iii) Cardamom

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G.Pulla Reddy College of Pharmacy
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Code No.1245

# FACULTY OF PHARMACY

## Pharm D (6–YDC) II – Year (Main & Backlog) Examination, July 2018

## Subject: Pharmaceutical Microbiology

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Any Five questions from Part – B.**

**PART – A (10x2 = 20 Marks)**

Write about:

1 Artificial active immunity
2 Disinfection
3 Rickettsiaes
4 Differential staining
5 Schick's test
6 Types of immunoglobulins
7 Photolithotrophs
8 Tyndallization
9 Halogens as sterilizing agent
10 Bacterial toxins

**PART – B (5x10 = 50 Marks)**

11 a) Write a note on general characteristics of fungi.
b) Give an account on bacterial growth curve.

12 a) Explain the differences between gram '+'ve and gram '-'ve bacteria.
b) Write about the classification of bacteria according to Bergey's manual.

13 a) Write a detailed note on how to maintain lab cultures.
b) Write about the enumeration techniques of bacteria.

14 a) Discuss on the physical methods of sterilization.
b) Write about different fungicidal agents with their mode of action.

15 a) Explain the mechanism of action of various disinfectants.
b) Write a note on validation of sterilization.

16 a) Write a note on microbial assay of penicillin.
b) Write a note on official vaccines.

17 a) Write a note on malarial parasite.
b) Discuss about the infectious disease cholera.

18 a) Discuss about ELISA.
b) Write about Gonorrhea.

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# FACULTY OF PHARMACY

**Pharm D (6–YDC) II – Year (Main & Backlog) Examination, July 2018**

**Subject: Pathophysiology**

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Any Five questions from Part – B.**

**PART – A (10x2 = 20 Marks)**

1 Define the terms – Hypertrophy and Atrophy.

2 Write the deficiency symptoms of Vit A.

3 Write a short note on Adhesion molecules.

4 Draw a neat labelled diagram of MHC (Major Histo compatibility) molecule.

5 Write the biological effects of carbon monoxide.

6 Write the pathophysiology of urinary tract infections.

7 Write about the neurotransmitters involved in depression and mania.

8 Write the clinical manifestations of alcoholic liver disease.

9 Explain in brief about etiological factors of crohn's disease.

10 What are the causes of cell injury?

**PART – B (50 Marks)**

11 Write in detail about STDs. 10

12 Write the etiopathogenesis of Type – II diabetes mellitus. 10

13 a) Explain about T-lymphocytes and B-lymphocytes with a neat labelled diagram. 6
b) Write the mechanism of transplant rejection. 4

14 a) Explain the vascular events of inflammation. 6
b) Write a note on glycogen storage diseases. 4

15 a) Write the etiopathogenesis of hypertension. 6
b) Explain the hypertrophy in congestive heart failure (CHF). 4

16 a) Write a note on lipid peroxidation. 4
b) Write about the etiopathogenesis of STROKE. 6

17 Write in detail about tumour suppressor genes. 10

18 Explain in detail about Type – I and Type – II hypersensitivity. 10

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# FACULTY OF PHARMACY

## Pharm D (6–YDC) II – Year (Main & Backlog) Examination, July 2018

## Subject: Community Pharmacy

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Any Five questions from Part – B.**

**PART – A (10x2 = 20 Marks)**

1 Define community pharmacy.
2 Define pharmaceutical care.
3 Write a note on medication errors.
4 Write the barriers in patient counseling.
5 Write the drug therapy to worm's infestations.
6 Explain about VED analysis.
7 Define health screening services. Write its importance.
8 Write clinical presentations of T.B.
9 Write factors affecting medication adherence.
10 Write the opportunistic infections in AIDS.

**PART – B (50 Marks)**

11 a) Define the concept of management. Describe the functions of management in detail with suitable pharmaceutical examples. 7
b) Explain about maintenance of registers in community pharmacy. 3

12 a) Write a note on the parts of prescription and their legality. 5
b) Explain the role of computers in community pharmacy. 5

13 a) Define patient counseling. Explain various stages in patient counseling. 7
b) Write a note on patient information leaflet. 3

14 Explain the etiology, clinical presentations and prevention of
a) Gonorrhea 5
b) Malaria 5

15 a) Write the role of pharmacist in family planning. 5
b) Write the essential principles of pharmaceutical care. 5

16 Explain the pharmacokinetic and pharmacodynamic changes in geriatric patients. 10

17 Write the pathophysiology and drug therapy of the following:
a) Pain 5
b) Constipation 5

18 Explain the role of pharmacist in rational drug therapy. 10

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Code No. 8074

# FACULTY OF PHARMACY

**Pharm. D (6 YDC) II–Year (Instant) Examination, February 2015**

**Subject: Pathophysiology**

**Time: 3 hours** **Max. Marks: 70**

***Note: Answer all questions from Part-A and Answer any Five questions from Part-B.***

**Part – A (10 x 2 = 20 Marks)**

1 What are the different chemical mediators of Inflammation?

2 Differentiate Benign Tumours from Malignant Tumours.

3 Write about Hypersensitivity type I.

4 Enumerate different types of shock.

5 Explain how complement system gets activated in inflammation.

6 Write the deficiency symptoms of Vitamin A and Vitamin E.

7 Write the clinical manifestations of Myocardial Infarction.

8 Explain the role of Neurotransmitters in Parkinsonism.

9 What do you mean by Delayed Hypersensitivity reaction?

10 Explain pathogenesis of Dysentery.

**Part – B (5 x 10 = 50 Marks)**

11 a) Write the vascular events of Inflammation. 6

b) Explain how wounds in the skin are repaired. 4

12 Describe the structure of MHC with a neat labeled diagram. 10

13 a) Write the etiopathogenesis of peptic ulcer disease. 6

b) Explain the pathogenesis of obesity. 4

14 a) What is immunologic tolerance? Classify and explain in detail. 5

b) Write the mechanism involved in Transplant Rejection. 5

15 Explain the etiopathogenesis of diabetes mellitus. 10

16 a) Write the pathogenesis of Atherosclerosis. Explain with a neat diagram. 6

b) Explain RAAS in Hypertension. 4

17 a) Write the pathogenesis of AIDS. 7

b) Write the causes of TB and Malaria. 3

18 a) Explain pathogenesis and symptoms of stroke. 6

b) Write in detail about different types of Angina pectoris. 4

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**Code No. 1111**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Instant) Examination, March 2018

**Subject : Community Pharmacy**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part – A, answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Define ABC and VED.
2 What are different types of Hepatitis?
3 Write the causative agents for Syphilis and Gonorrhea.
4 Write the drug therapy for Norms infestation.
5 Define OTC medication? Write at least two examples.
6 Define Balance Diet. Write the composition of balance diet.
7 Write the importance of coding.
8 List out the factors to be considered during selection of appropriate site for community pharmacy.
9 Define patient medication Adherence.
10 Define Sulfone syndrome.

**PART – B (5 x 10 = 50 Marks)**

11 Write about the causative agents, clinical presentation and prevention
(a) Tuberculosis
(b) Leprosy

12 Write the code of ethics for community pharmacist.

13 Write the pathophysiology, common drug therapy to
(a) Vomiting
(b) Dyspepsia

14 Define community pharmacy. Explain the role and responsibilities of a community pharmacist.

15 Explain the role of pharmacist in family planning.

16 Define Rational Drug use (RDU). Explain the role of pharmacist in improving RDU.

17 Explain detail care for pregnant and breast feeding women.

18 Define the prescription. Discuss in Legality and identification of medication related problems.

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**Code No. 1110**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Instant) Examination, March 2018

**Subject : Pharmacology – I**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part – A, answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 What is antagonism? Write the types of Antagonism with examples.
2 What are Nasal decongestants? Give examples.
3 Write one example each of Pharmacokinetic and Pharmacodynamic drug interactions.
4 What is Plasma protein binding? Write its significance.
5 What are Neuro muscular blockers? Write the mechanism of d-Tubocurarine.
6 What are Tocolytics? Give examples.
7 Write briefly on Oral contraceptives.
8 What is Myasthenia gravis? Name the drugs used.
9 Write the mechanism of action of Theophylline in bronchial asthma.
10 Write the role of Angiotensin receptor blockers in hypertension.

**PART – B (5 x 10 = 50 Marks)**

11 Write the advantages and disadvantages of different routes of administration of drugs.

12 Classify Anti-parkinsonism drugs. Write in detail about the drugs used to treat Parkinsonism.

13 (a) Write short notes on CNS stimulants. (4)
(b) Write in detail about local anaesthetics. (6)

14 (a) What is Eicosanoids? Write the biosynthesis. (4)
(b) Write pathophysiological role in Angiotensin and Prostaglandins. (6)

15 Write about :
(a) G-protein coupled receptors (4)
(b) Different mechanism of Absorption of drugs (6)

16 Classify adrenergic blockers with examples. Write the pharmacology of
(a) Prazosin (b) Propranolol

17 What are Androgens? Write the physiological role of sec hormones.

18 Classify Anti-arrhythmic drugs. Write in detail pharmacology of drugs used to treat Arrhythmias.

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**Code No. 1109**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Instant) Examination, March 2018

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part – A, answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Define the term (a) Pharmacognosy (b) Substitute
2 Write about morphological classification with examples.
3 Differentiate fixed oil and volatile oil.
4 Explain the cell wall structure.
5 Write microscopical powder characters of senna.
6 Explain the isolation methods of resins.
7 Write about :
(a) Van-Urk's test
(b) Salkowski test
8 Define saponification value and give its significance.
9 What are cyanogenetic glycosides? How do you identify them?
10 Write the biological source and chemical constituents of sterculia gum.

**PART – B (5 x 10 = 50 Marks)**

11 Explain different methods of cultivation of crude drugs with their merits and demerits. (10)

12 (a) What are secondary metabolites? Give examples. (3)
(b) Write a note on glycosides. (7)

13 (a) Classify natural pesticides with examples. (4)
(b) Write the biological source, chemical constituents and uses of pyrethrum and Neem. (3+3)

14 (a) Explain different extraction methods of simple lipids. (5)
(b) Write a note on drying oils with examples. (5)

15 Write pharmacognostic scheme of (2x5)
(a) Rauwolfia
(b) Cardamom

16 (a) Define and classify tannins with examples. Write different characteristics tests of tannins. (6)
(b) write the biological source and chemical constituents of (4)
(i) Benzoin (ii) Spermaceti

17 Discuss protein structure. How do you determine it? (10)

18 (a) Write a note on plant fibres used in surgical dressings. (5)
(b) Explain the different methods of adulteration of crude drugs with examples and how do you prevent it? (5)

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**Code No. 1108**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Instant) Examination, March 2018

**Subject : Pharmaceutical Microbiology**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part – A, answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Antiseptics
2 Active immunity
3 Importance of booster dose
4 Differences between Exotoxins and Endotoxins
5 Widal test
6 Negative staining
7 Types of immunoglobulins
8 Photolithotrophs
9 Fungi
10 Virucide

**PART – B (5 x 10 = 50 Marks)**

11 (a) Discuss about the microbes importance in industrial microbiology. (5)
(b) Write a brief note on Germ theory of disease with a mention of Koch's postulates. (5)

12 Describe the general characteristics of viruses. Write about viral replication. (10)

13 (a) Write about rickets sisals. (5)
(b) Discuss the various methods of isolation of bacteria and the preservation of pure cultures. (5)

14 (a) Discuss various methods of sterilization of pharmaceutical products. (7)
(b) Write a brief note on test for sterility. (3)

15 (a) What are disinfectants? Write about different classes of disinfectants. (7)
(b) Write a note on R.W. (Real walker) test. (3)

16 Write a note on microbial assays of antibiotics and write about penicillin assay. (10)

17 (a) Discuss briefly on Antigen-Antibody reactions.
(b) Write a general note on principle involved in blotting techniques.

18 Write about pathogenesis, lab diagnosis and prevention of infection diseases
(a) HIV
(b) Tuberculosis

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**Code No. 1112**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Instant) Examination, March 2018

**Subject : Pharmacotherapeutics – I**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part – A, answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Write the JNC 7 classification of blood pressure classification.
2 What are the diagnostic tests for osteoporosis?
3 What are the normal values of lipid panel?
4 What are the modifiable and non modifiable risk factors for Angina?
5 How does the early pharmacotherapy of NSTEMI differ from STEMI?
6 Write the applications of Pulmonary function Testing.
7 List out the agents and events that trigger Asthma.
8 What is essential drug concept?
9 Differentiate between viral and bacterial conjunctivitis.
10 Write a brief note on Beer's criteria for prescribing geriatric population.

**PART – B (5 x 10 = 50 Marks)**

11 (a) Write the algorithm for management of Hypertension with compelling indications. (7)
(b) Differentiate between hypertensive urgency and hypertensive crisis. (3)

12 (a) Write the algorithm for management of stage C heart failure. (5)
(b) Write briefly the pathophysiology of Heart Failure. (5)

13 (a) Explain the pharmacotherapy of management of Dyslipidaemia. (5)
(b) Write a note on class III antiarrhythmic drugs. (5)

14 (a) Explain the management of prinzmetal angina. (4)
(b) Write the algorithm for management of STEMI. (6)

15 (a) Explain the pharmacotherapy of severe acute asthma. (7)
(b) Write a note on the various oral contraceptives. (3)

16 (a) Classify with examples and give the mechanism of action of oral antidiabetic drugs. (6)
(b) Write a note on goiter. (4)

17 (a) Explain anti-resorptive therapy in osteoporosis. (7)
(b) Write the management of bacterial conjunctivitis. (3)

18 (a) How is oral absorption of drugs altered in pediatrics? (5)
(b) Explain transplacental drug transfer. (5)

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**Code No. 4259**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Main) Examination, July 2017

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 What are ergastic substances? Give examples.
2 Write about drying of crude drugs.
3 Define the terms : (a) Resin (b) Denaturation
4 Give the morphological classification of crude drugs with examples.
5 Explain the structure of calcium oxalate crystals with examples.
6 Explain the term : (a) Polyploidy (ii) Iodine value
7 Define and classify lipids with examples.
8 With the help of neat diagrams, give the powder characters of liquorice.
9 Mention the biological source and uses of sterculia.
10 Write about: (a) Kelles killiani test (b) Super critical fluid extraction method

**PART – B (5 x 10 = 50 Marks)**

11 (a) What are the different methods of classification of crude drugs? Write briefly about the chemical classification with examples.
(b) Explain the application of plant growth hormones.

12 (a) Define and mention the different methods of cultivation of medicinal plants. Mention the merits and demerits.
(b) Discuss scope of pharmacognosy.

13 (a) Explain how the mutation technique is helpful to improve the yield of medicinal compounds.
(b) Explain the structure of plant cell wall.

14 Write the pharmacognostic scheme of : (a) Ginger (b) Ergot

15 (a) Explain different methods of adulteration of crude drugs with examples.
(b) Write a note on natural pesticides.

16 With the help of neat labeled diagram explain the microscopial characters:
(a) Ephedra
(b) Datura

17 (a) Describe the method of preparation of cotton.
(b) What are different chemical classes of secondary metabolites? Write a short note on Tannins.

18 Discuss the biological source, chemical constituents and uses :
(a) Guggal (b) Ashwagandha (c) Gelatin

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**Code No. 4258**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Main) Examination, July 2017

**Subject : Pharmaceutical Microbiology**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 What are Fungi?
2 Write about virucide.
3 Explain Natural immunity.
4 What is medical microbiology?
5 Structure of Bacteriophage.
6 What is Generation time?
7 Define Antibody.
8 Write about selective media.
9 Write the significance of PCR.
10 What are Toxoids?

**PART – B (5 x 10 = 50 Marks)**

11 (a) Discuss the importance of microbes in industrial microbiology.
(b) Write a brief note on germ theory of disease with a mention of kochi postulates.

12 (a) Describe the general characteristics of viruses.
(b) Write about Rickettsias.

13 (a) Discuss the various methods for isolation of bacteria.
(b) Write a note on bacterial stains and explain the different staining techniques.

14 (a) Discuss various methods for sterilization of pharmaceutical products.
(b) Write a brief note on test for sterility.

15 (a) What are distinfectants? Write about different classes of disinfectants with examples..
(b) Briefly explain Rideal-walker (RW) test.

16 (a) Describe Schick's test and mention its uses.
(b) Discuss about western blot test and its significance.

17 (a) Write a note on microbial assays of antibiotics.
(b) Write about pathogenesis, lab diagnosis and prevention of HIV.

18 (a) Describe antigen-antibody reactions.
(b) Give a brief account of infectious diseases – Tuberculosis

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**Code No. 4261**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Main) Examination, July 2017

**Subject : Community Pharmacy**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Define coding. Write its importance.
2 Write the legal requirements to start the community pharmacy.
3 Define prescription. Write parts of prescription.
4 Define the term Lead time and Safety stock.
5 Write note on patient information leaflet.
6 Define medication adherence.
7 Define OTC drugs. Give any two examples.
8 Write the non pharmacological treatment for constipation.
9 Write the WHO definition of health.
10 Write clinical presentations of AIDS.

**PART – B (5 x 10 = 50 Marks)**

11 (a) Describe the role and responsibilities of community pharmacist.
(b) Write the staff required in community pharmacy.

12 Discuss the causative agents, clinical presentations and prevention of
(a) Gonorrhea
(b) Malaria

13 (a) Write the space layout and design of community pharmacy.
(b) Explain the maintenance of registers in community pharmacy.

14 (a) Define inventory control. Write about EOQ method.
(b) Explain the role of pharmacist in family planning.

15 (a) Describe the methods used for screening of blood sugar.
(b) Write a note on lung function tests.

16 Write the pathophysiology and drug therapy for the following:
(a) Nausea and vomiting
(b) Constipation

17 (a) Define patient counseling. Write the stages of patient counseling.
(b) Write a note on balanced diet.

18 Write the code of ethics for community pharmacist.

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**Code No. 4260**

# FACULTY OF PHARMACY

**Pharm. D (6 YDC) II-Year (Main) Examination, July 2017**

**Subject : Pharmacology-I**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Explain the triple response of Histamine.
2 Write the advantages of oral route of administration.
3 Explain in brief about the types of Antagonism.
4 Write the treatment for Parkinsonism.
5 Write the classification of Bronchodilators.
6 What is the pathophysiological role of 5-HT(5-Hydroxy tryptamine)?
7 Write the adverse effects of Insulin.
8 Explain the mechanism of action of local anaesthetics.
9 Write the pharmacology of Nicotine.
10 Explain about Biotransformation reaction in brief.

**PART – B (5 x 10 = 50 Marks)**

11 Explain the factors modifying drug action.

12 Classify parasympathomimetics with examples. Write the mechanism of action, pharmacological actions and adverse effects of Acetyl choline.

13 (a) Classify the drugs used in congestive Heart failure.
(b) Explain in detail about the pharmacological actions of any one drug with adverse effects in Diabetes mellitus.

14 (a) What are Anti-Histamines? Classify with examples. Write the pharmacological actions of any one drug.
(b) Write a note on 5-HT antagonists.

15 (a) What are opioid analgesics? Write the classification with examples.
(b) Write the pharmacological actions, adverse effects and therapeutic uses of paracetamol.

16 (a) Classify sedatives and hypnotics with examples.
(b) Write a note on Anti-hyperlipedemic drugs.

17 (a) Explain Toxicity studies in detail.
(b) Write about the treatment of myasthenia gravis.

18 (a) Write the pharmacological actions of Insulin.
(b) Explain Drug-Drug Interactions with few examples.

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**Code No. 4257**

# FACULTY OF PHARMACY

## Pharm. D (6 YDC) II-Year (Main) Examination, July 2017

**Subject : Pathophysiology**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Define the terms – Anaplasia and differentiation.
2 Write the deficiency symptoms of vitamin B.
3 Write a note on chemotaxis.
4 How do the free radicals are formed?
5 Represent the pathogenesis of Angina pectoris in the form of flow chart.
6 Write the clinical manifestations of ulcerative colitis.
7 How does wound healing takes place?
8 Write the formation of Advanced Glycation End products.
9 Write the etiology of parkinsonism.
10 What are the effects of smoking?

**PART – B (5 x 10 = 50 Marks)**

11 Write the etiopathogenesis of congestive Heart failure.

12 Explain the apoptosis process with a neat labeled diagram.

13 (a) Write the etiology of cancer.
(b) Write about the mechanism of Auto immunity.

14 (a) Define the term 'bronchial Asthma". Write the pathogenesis with a neat labeled diagram.
(b) Represent the pathogenesis of Atherosclerosis with a neat labeled diagram.

15 Write in brief about Type III and IV Hypersensitivity reactions.

16 (a) Explain the pathogenesis of AIDS.
(b) Write about different types of pneumonia.

17 (a) Define the term Hepatitis. Write about the etiopathogenesis.
(b) Write the pathogenesis of TB.

18 What are the cellular events of Inflammation? Explain in detail.

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Code No. 6119

# FACULTY OF PHARMACY

**Pharm D (6 – YDC) II – Year (Main & Backlog) Examination, August 2016**

**Subject: Pathophysiology**

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Answer any Five questions from Part – B.**

**PART – A (10x2 = 20 Marks)**

1 Distinguish between Mania and Depression.
2 Enumerate different types of Angina pectoris.
3 Define the terms – Metaplasia and Hyperplasia.
4 Write the deficiency symptoms of vitamin C.
5 Write the pathophysiology of leprosy.
6 Explain the mechanism involved in Autoimmunity.
7 Draw a neat labelled diagram of B-Lymphocytes.
8 Write the clinical manifestations of Acute Renal Failure.
9 Write the biological effects of sulphur dioxide.
10 Represent the pathogenesis of peptic ulcer disease in the form of diagram.

**PART – B (5x10 = 50 Marks)**

| | | | |
|---|---|---|---|
| 11 | | Write the etiopathogenesis of AIDS. | 10 |
| 12 | a) | Describe the structure of MHC (Major histocompatability complex) with a neat labelled diagram. | 7 |
| | b) | Write the mechanism involved in transplant rejection. | 3 |
| 13 | a) | Write the pathogenesis of hypertension. | 6 |
| | b) | Differentiate between Ischemic and hemorrhagic stroke. | 4 |
| 14 | a) | Explain the cellular events of inflammation. | 6 |
| | b) | Write a note on complement system activation. | 4 |
| 15 | a) | Write in detail about RAS gene and P53 tumour suppressor genes. | 7 |
| | b) | Explain the etiology of cancer. | 3 |
| 16 | | Explain in detail about Type II and III Hypersensitivity reactions. | 10 |
| 17 | a) | Write the pathogenesis of Type I Diabetes Mellitus. | 5 |
| | b) | How are AGEs (Advanced Glycation End products) formed? | 5 |
| 18 | a) | Explain different causes of cell injury. | 3 |
| | b) | Explain in detail the formation of reactive oxygen species. | 7 |

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**Code No. 6123**

# FACULTY OF PHARMACY

**Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, August 2016**

**Subject : Community Pharmacy**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

## PART – A (10 x 2 = 20 Marks)

1 Define Health.
2 Define OTC medication
3 Define Balance Diet
4 List various parts of prescription
5 Define patient counselling
6 Define Idiosyncrasy.
7 List out the factors to be considered during selection of appropriate site for community pharmacy.
8 Write the importance of coding and stocking.
9 Write the objectives of Inventory control.
10 Write the causative agents for AIDS and Typhoid.

## PART – B (5 x 10 = 50 Marks)

11 Write about the causative agents, clinical presentation and prevention of :
(a) Tuberculosis (b) Leprosy (5+5)

12 (a) Explain the role of pharmacists family planning. (7)
(b) Write about the scope of community pharmacy. (3)

13 (a) Explain briefly about various drug interaction with relevant examples. (7)
(b) Write the legal requirements for the establishment of retail drug store. (3)

14 (a) Write the pathophysiology and common drug therapy of pyrexia. (6)
(b) Mention various types of cholesterol levels usually monitored in lipid profile tests and add note on the interpretation of abnormal values. (4)

15 (a) Write a note on the use of computers in community pharmacy. (4)
(b) Add a note on code of ethics for pharmacist and write about pharmacist in relation to his job and medical profession. (6)

16 (a) Define and describe various factors affecting medical adherence? (7)
(b) Write about screening of B.P. (3)

17 (a) Define Rational Drug use (RDU). Explain the role of pharmacist in improving RDU. (7)
(b) Define Hepatitis with their causative agents. (3)

18 (a) Explain various registers used in community pharmacy management. (7)
(b) Explain : (i) Lead Time (ii) Safety stock (3)

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# FACULTY OF PHARMACY

## Pharm D (6 – YDC) II – Year (Main) Examination, August 2016

## Subject: Pharmacology – I

**Time: 3 Hours** **Max.Marks: 70**

**Note: Answer all questions from Part – A. Answer any Five questions from Part – B.**

### PART – A (10x2 = 20 Marks)

1 Write about the Dale's vasomotor response of adrenaline.
2 Write the treatment for glaucoma.
3 Write the pathophysiological role of histamine.
4 Classify beta blockers with examples.
5 Write the adverse reactions of insulin.
6 Write the mechanism of action of metformin.
7 Explain cholinergic receptors in detail.
8 Write the actions of estrogens and progestins.
9 What is hydantoin syndrome?
10 Write the pharmacology of salbutamol.

### PART – B (5x10 = 50 Marks)

| | | | |
|---|---|---|---|
| 11 | | Classify adrenergic drugs with examples. Write the pharmacology of isoprenaline. | 10 |
| 12 | a) | Explain biotransformation reactions in detail. | 5 |
| | b) | How do you prolong a drug action? | 5 |
| 13 | a) | Write the treatment for bronchial asthma. | 7 |
| | b) | Write a note on nasal decongestants. | 3 |
| 14 | a) | Write the pharmacology of serotonin. | 7 |
| | b) | Write the treatment for migraine. | 3 |
| 15 | a) | Classify anti-anginal drugs with examples. | 3 |
| | b) | Write the pharmacology of quinidine. | 7 |
| 16 | a) | Classify sedatives and hypnotics with examples. Write their mechanism of action in detail. | 6 |
| | b) | Write the pharmacology of morphine. | 4 |
| 17 | a) | What are anti-histamines? Classify with examples. | 5 |
| | b) | Write the pharmacology of diuretics. | 5 |
| 18 | a) | Write the actions of insulin. | 3 |
| | b) | Explain the synthesis and regulation of thyroid hormones. | 7 |

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Code No. 6121

# FACULTY OF PHARMACY

**Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, August 2016**

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

## PART – A (10 x 2 = 20 Marks)

1 Define the terms :
(a) Crude drug (b) Substitutes
2 List out different types of vegetative propagation methods with examples.
3 Write the biological source, chemical constituents of pyrethrum.
4 What are suponins? Give two identification tests.
5 With neat diagrams, give the powder characters of quassia.
6 Define the terms: (a) Zwitter ion (b) Swelling index
7 How do you distinguish Born tragger's and modified born tragger's test?
8 Define and classify proteins.
9 Write two identification tests for guar gum and sterculia.
10 List essential amino acids and write their structures.

## PART – B (5 x 10 = 50 Marks)

11 (a) Give a brief account on cell inclusions with examples. (5)
(b) List out different systems of classification for crude drugs. Explain in indetail pharmacological classification with examples. (5)

12 (a) Discuss briefly the flavanoids with examples. (5)
(b) Write about different methods of crop improvement. Explain any one method with examples. (5)

13 (a) Define acid value. Explain the principle involved and method to determine it. (5)
(b) Write a note on importance of indole alkaloids with examples. (5)

14 (a) What are different processing parameters for the preparation of crude drugs to market. (5)
(b) Write about "lignin and pectin'' as cell wall components. (5)

15 With a neat labelled diagram write the histological characters for
(i) clove (ii) podophyllum (5+5)

16 (a) Explain the structure of protein and list out different methods for its determination and explain any one in detail. (6)
(b) Define drug adulteration. Explain how to prevent it. (4)

17 (a) Classify natural fibres. Give the biological sources, chemical constituents and uses of hemp. (5)
(b) Write about purine alkaloids with examples. (5)

18 Write the biological source, chemical constituents and uses of : (4+3+3)
(a) Opium (b) Pale catehu (iii) Benzoin

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# FACULTY OF PHARMACY

**Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, August 2016**

**Subject : Pharmaceutical Microbiology**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

## PART – A (10 x 2 = 20 Marks)

1 What are spirochetes?
2 Define Disinfection and Disinfectants.
3 What is Mckonkey's Agar media.
4 Write about the chemical nature of antigens.
5 What do you mean by Booster dose?
6 Write about negative staining and its applications.
7 What is endo toxin give examples?
8 Explain the term phagocytosis with examples.
9 Write about Indole test and its importance.
10 What is Widal test write its significance?

## PART – B (5 x 10 = 50 Marks)

11 (a) Describe the history and development of microbiology. (5)
(b) Discuss the importance of microbes in medical microbiology. (5)

12 (a) Explain the physical conditions required for the growth of bacteria. (6)
(b) Write a note on cultivation of anaerobic bacteria. (4)

13 (a) Describe the general methods of classification for bacteria. (5)
(b) Explain the techniques used in bacterial and viral enumeration. (5)

14 (a) Discuss various methods of sterilization for pharmaceutical products. (6)
(b) Discuss in brief validation of sterilization process. (4)

15 (a) What are disinfectants? Explain the mode of action of common disinfectants. (5)
(b) Discuss in detail any one popular evaluation test for disinfectants. (5)

16 Give a brief account on
(a) blotting techniques. (6)
(b) PCR. (4)

17 (a) Write an essay on microbiological assays and discuss in detail the bioparameters controlling the microbiological assays. (6)
(b) Describe the process of standardization of vaccines. (4)

18 (a) Explain artificial immunity and how is it different from natural immunity. (5)
(b) Describe the different lab diagnostic tests and treatment for syphilis. (5)

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# FACULTY OF PHARMACY

**Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, August 2016**

**Subject : Pharmacotherapeutics – I**

**Time : 3 Hours** **Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

1 Define (a) SV Tachycardia (b) Ventricular Fibrillations
2 What is the role of incretins in Diabetes Mellitus?
3 Write briefly about rational drug use.
4 What are Inflammatory mediatros?
5 What is Framingham Risk Assessment scale?
6 Define Teratogenicity with two examples.
7 Define HbA1C, along with the normal value in diabetics and pre diabetics.
8 What are the complications of Hormone replacement therapy?
9 Categorize Acute Coronary Syndrome.
10 Define FEV1 and Tidal volume.

**PART – B (5 x 10 = 50 Marks)**

11 Write a note on Pathophysiology and Pharmacological management of Congestive Heart Failure. (10)

12 (a) What is the role of Cortcosteroids in treating pulmonary disorders? (5)
(b) Write a note on Viral Conjunctivitis. (5)

13 (a) Write a brief note on management of asthma. (5)
(b) Emergency contraception. (5)

14 Discuss the etiopathogenesis, risk factors of Hypertension and its management. (10)

15 Discuss Pharmacological and non pharmacological management of Dyslipidemia. (10)

16 Write notes on :
(a) Prescribing guidelines of Paediatrics (6)
(b) Myxoedema coma (4)

17 (a) Write a note on the role of Bisphosphonates in the treatment of osteoporosis along with its administration guidelines. (4)
(b) Write the place in therapy of the various Sulphonyl ureas and DPP4 inhibitors. (6)

18 Write in detail about Essential Drug concept. (10)

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Code No. 7291

# FACULTY OF PHARMACY

**Pharm. D. II – Year (Instant) Examination, January 2014**

**Subject : Pathophysiology**

**Time : 3 hours** **Max. Marks : 70**

***Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.***

**PART – A** (10 x 2 = 20 Marks)

| | | |
|---|---|---|
| 1 | Define the terms-Necrosis and Metaplasia. | 2 |
| 2 | Write a note on Benign tumors. | 2 |
| 3 | Differentiate Depression and Mania. | 2 |
| 4 | Write a note on Adhesion Molecules in inflammation. | 2 |
| 5 | Write the pathogenesis of Alcoholic Liver Disease. | 2 |
| 6 | Explain different types of Angina pectoris. | 2 |
| 7 | Write the deficiency symptoms of Vitamin C and Vitamin D. | 2 |
| 8 | What are the different biological effects of radiation? | 2 |
| 9 | Write the pathogenesis of chronic bronchitis. | 2 |
| 10 | Write the symptoms of Dysentery. 2 | |

**PART – B** (5 x 10 = 50 Marks)

| | | | |
|---|---|---|---|
| 11 | | Explain the vascular events of Acute Inflammation. | 10 |
| 12 | a) | Explain in detail shock management. | 6 |
| | b) | Write a note on chemical mediators of Acute Inflammation. | 4 |
| 13 | a) | Explain Immediate (Type-I) Hypersensitivity reaction. | 7 |
| | b) | Write about the 'Arthus Reaction'. | 3 |
| 14 | a) | Write the Etiopathogenesis of Bronchial Asthma. | 6 |
| | b) | Explain different types of stroke. | 4 |
| 15 | a) | Explain the Etiopathogenesis of Hypertension. | 6 |
| | b) | Write about Hypertrophy in congestive cardiac failure. | 4 |
| 16 | | Explain in detail about STDs (Sexually Transmitted Diseases). | 10 |
| 17 | a) | Explain in detail about p53 tumor suppressor gene. | 6 |
| | b) | Write about the process of Metastasis. | 4 |
| 18 | a) | Write the Etiopathogenesis and Symptoms of Tuberculosis. | 6 |
| | b) | Write the pathogenesis of Cirrhosis. | 4 |

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# FACULTY OF PHARMACY

## Pharma. D. II Year (Instant) Examination, January 2014

## Subject: Community Pharmacy

**Time: 3 Hours** **Max.Marks: 70**

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

### PART – A (10 x 2 = 20 Marks)

| | | |
|---|---|---|
| 1 | Define community pharmacy | 2 |
| 2 | Define pharmaceutical care | 2 |
| 3 | Define prescription and write the parts of prescription. | 2 |
| 4 | Write the causative organism for syphilis and gonorrhea. | 2 |
| 5 | Write the drug therapy to dyspepsia. | 2 |
| 6 | Explain about VED analysis. | 2 |
| 7 | Define OTC medication. Give at least two examples. | 2 |
| 8 | Define safety stock. | 2 |
| 9 | Define health and health promotion. | 2 |
| 10 | Write the composition of balanced diet. | 2 |

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### PART – B (50 Marks)

| | | |
|---|---|---|
| 11 | Write the role and responsibilities of community pharmacist. | 10 |
| 12 | Differentiate the terms administration and management and organization with their role in community pharmacy. | 10 |
| 13 | Define inventory control. Explain in detail about EOQ Method. | 10 |
| 14 | Define medication adherence. Explain the role of pharmacist in improving the adherence. | 10 |
| 15 | Explain the etiology, clinical presentations and prevention of<br>(a) AIDS<br>(b) Malaria | <br>5<br>5 |
| 16 | Write the role of pharmacist in family planning. | 10 |
| 17 | Write in detail about care of geriatric patients. | 10 |
| 18 | Write the pathophysiology and drug therapy of the following:<br>(a) Pain<br>(b) Constipation. | <br>5<br>5 |

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# FACULTY OF PHARMACY

## Pharma. D. II Year (Instant) Examination, January 2014

## Subject: Pharmacology – I

**Time: 3 Hours** **Max.Marks: 70**

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

### PART – A (10 x 2 = 20 Marks)

| | | |
|---|---|---|
| 1 | Define the terms tachyphylaxis and teratogenicity. | 2 |
| 2 | What is vasomotor reversal of Dale? | 2 |
| 3 | Give a note on insulin analogues. | 2 |
| 4 | What is triple response? | 2 |
| 5 | Write about the role of prostaglandins on kidney. | 2 |
| 6 | Give the differences between local anaesthetics and general anaesthetics. | 2 |
| 7 | What are Non-steroidal anti inflammatory agents? Classify them. | 2 |
| 8 | Write a note on Platelet activating factor. | 2 |
| 9 | Define Epilepsy and write the mechanism of action of phenytoin. | 2 |
| 10 | Explain about cholinesterases. | 2 |

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### PART – B (50 Marks)

| | | | |
|---|---|---|---|
| 11 | (a) | Write in detail about factors modifying drug action. | 7 |
| | (b) | Write a note on biotransformation reactions. | 3 |
| 12 | (a) | What is congestive heart failure? Write in brief about drugs used in the treatment of congestive heart failure. | 7 |
| | (b) | Classify hypolipidemic agents. Write a note on statins with examples. | 3 |
| 13 | (a) | Give the pharmacology of adrenaline. | 7 |
| | (b) | Write a note on mydriatics and miotics. Give examples. | 3 |
| 14 | (a) | Write a note on 5-HT antagonists with examples. | 5 |
| | (b) | Give a detailed note on pharmacological actions of histamine. | 5 |
| 15 | (a) | What are hypoglycaemics? Classify oral hypoglycaemics and write in detail about them. | 6 |
| | (b) | Enumerate the actions of insulin. | 4 |
| 16 | | Write notes on | |
| | (a) | Central nervous system stimulants. | 5 |
| | (b) | Pharmacological actions of Levodopa. | 5 |
| 17 | (a) | Define and classify bronchodilators. | 3 |
| | (b) | Explain in detail any two classes of bronchodilators. | 7 |
| 18 | | Write short notes on: | |
| | (a) | Drug Interactions | 5 |
| | (b) | Anti thyroid drugs | 5 |

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Code No. 7293

# FACULTY OF PHARMACY

## Pharma. D. II Year (Instant) Examination, January 2014

## Subject: Pharmacognosy and Phytopharmaceuticals

**Time: 3 Hours** **Max.Marks: 70**

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

### PART – A (2 x 10 = 20 Marks)

1 Explain the terms:
(a) Secondary metabolite (b) Rancidity

2 What is Enfleurage? Write about it.

3 Draw a neat labelled diagram of plant cell.

4 Explain (a) Gunmosis (b) Rolled Towel test.

5 Define 'Glycosides'. Classify with examples.

6 Diagrammatically explain powder characters of fennel.

7 How does starch differ from cellulose?

8 Write any two identification tests for alkaloids.

9 Write about and functions of proteins.

10 Define 'Lipid'.

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### PART – B (50 Marks)

11 (a) Write a note on structural composition of plant cell wall 5
(b) Write about morphological classification of crude drugs with examples. 5

12 (a) Write histological characters of (i) Digitalis (ii) Cinnamon. 6
(b) What are (i) Liebermann Buchard test (ii) Borntrager's test. 4

13 (a) Write various merits of obtaining drugs from cultivated plants. 5
(b) What are the various benefits of using natural pesticides. Write about Pyrethrum and Nicotine. 5

14 Write important pharmacognostic details of ISAPGOL & TRAGACANTH. 10

15 (a) Write various qualitative tests for amino acids and proteins. 5
(b) Discuss procedure for determination of primary structure for protein. 5

16 (a) Write ideal conditions for storage of crude drugs. 4
(b) Write a note on drug adulteration. 6

17 (a) Write a note on plant growth stimulators. 4
(b) Define iodine value and saponification value. Write procedure for determination of iodine value. 6

18 (a) Write in detail extraction method for Olive Oil. 5
(b) Write about any two methods for estimation of proteins. 5

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# FACULTY OF PHARMACY

**Pharm. D. II – Year (Instant) Examination, January 2014**

**Subject : Pharmaceutical Microbiology**

**Time : 3 hours** **Max. Marks : 70**

***Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.***

**PART – A** (10 x 2 = 20 Marks)

**Write about**

| | | |
|---|---|---|
| 1 | Relationship between Aquatic and Medical Microbiology | 2 |
| 2 | Bacteriophages | 2 |
| 3 | Autotrophs and Heterotrophs | 2 |
| 4 | Spore staining | 2 |
| 5 | Membrane Filters | 2 |
| 6 | Definition of immunity | 2 |
| 7 | Definition of Antiseptic | 2 |
| 8 | PCR Widal | 2 |
| 9 | Definition of Vaccines | 2 |
| 10 | T.B. Vaccine | 2 |

**PART – B** (5 x 10 = 50 Marks)

| | | | |
|---|---|---|---|
| 11 | a) | Write about the Historic developments of Microbiology. | 5 |
| | b) | Discuss the Major Divisions of Microbiology. | 5 |
| 12 | a) | Discuss general characteristics of Fungi. | 5 |
| | b) | Discuss about general properties of bacteria. | 5 |
| 13 | a) | Describe Cultivation of Virus. | 5 |
| | b) | What are the nutritional requirements of bacteria? | 5 |
| 14 | a) | Describe the different staining methods of bacteria. | 5 |
| | b) | Discuss the chemical methods of sterilization. | 5 |
| 15 | a) | Discuss classification of Immunity. | 7 |
| | b) | Discuss about fungicidal agents. | 3 |
| 16 | a) | Describe the Microbiological Assay of Streptomycin. | 6 |
| | b) | Describe standardization of Vaccines. | 4 |
| 17 | a) | Discuss cultivation, pathology and diagnosis (Lab) of typhoid causing bacteria | 5 |
| | b) | Discuss cultivation, pathogenicity, lab diagnosis of cholera bacteria. | 5 |
| 18 | a) | Discuss about toxiods and their significance | 5 |
| | b) | Discuss about the Immunization programme | 5 |

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# FACULTY OF PHARMACY

## Pharm D. II – Year (Instant) Examination, January 2014

## Subject : Pharmacotherapeutics – I

**Time : 3 hours** **Max. Marks : 70**

***Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.***

**PART – A** (**10 x 2 = 20 Marks**)

| | | |
|---|---|---|
| 1 | Define Rational Drug use. | 2 |
| 2 | Write about diagnosis and treatment for Gestational Diabetes mellitus. | 2 |
| 3 | Write about drug induced pulmonary diseases. | 2 |
| 4 | Explain the applications of hormone replacement therapy. | 2 |
| 5 | Define and write the causes of unstable angina. | 2 |
| 6 | What is Corpulmonale and write the causes for it? | 2 |
| 7 | What is meant by diabetic coma? | 2 |
| 8 | Write briefly about the pharmacokinetic changes that occur in a pregnant woman. | 2 |
| 9 | Write a short note on Essential drug concept. | 2 |
| 10 | Write the role of β-Blockers in the treatment of glaucoma. | 2 |

**PART – B** (**5 x 10 = 50 Marks**)

| | | |
|---|---|---|
| 11 | a) Describe the pathophysiology of myocardial infarction.<br>b) Explain the ECG changes in Arrhythmias. | 7+3 |
| 12 | a) Explain the management of hypothyroidism.<br>b) Explain the treatment for diffuse toxic goiter. | 7+3 |
| 13 | a) Explain the drug therapy for Type II diabetes mellitus.<br>b) Explain the glucose tolerance test. | 6+4 |
| 14 | a) Explain the pathophysiology of primary hypertension.<br>b) Describe the role of ACE inhibitors on hypertension. | 7+3 |
| 15 | a) Explain in detail about osteoporosis.<br>b) Write short notes on oral contraceptives. | 6+4 |
| 16 | a) Write in detail about the clinical manifestation of Chromic Obstructive Pulmonary Disease.<br>b) Write the role of Methylxanthines in the treatment of COPD. | 7+3 |
| 17 | a) Define hyperlipidemia and write the causes of atherosclerosis.<br>b) Explain the drug therapy for hypelipedemic conditions. | 4+6 |
| 18 | a) Explain the prescribing guidelines for pediatrics.<br>b) Explain the treatment for open angle glaucoma. | |

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