

**ADICHUNCHANAGIRI UNIVERSITY**  
**Pharm D II Year Examination – July 2021**

**TIME: 3 Hours**

**MAX.MARKS: 70**

**SUB: Pathophysiology**

**QP CODE: 44201**

- Instructions:**
1. Your answer should be specific to the questions asked.
  2. Write the same question numbers as they appear in this question paper.
  3. Write Legibly.
  4. Draw neat labelled diagrams wherever necessary.

**Long Essay: Answer any Two**

**2X10=20**

1. Write in detail the pathogenesis of acute inflammation.
2. What are the different types of hypersensitivity reactions? Describe the Type IV hypersensitivity reaction.
3. Explain in detail the etiology and pathogenesis of cancer.

**Short Essay: Answer any Six**

**6X5=30**

4. Describe in detail the life cycle of malaria
5. Define autoimmunity. Classify the autoimmune diseases.
6. Write in detail the pathogenesis of HIV infection.
7. Enlist the differences between benign and malignant tumor.
8. Write a short note on air pollution.
9. Explain the biological effects of radiation.
10. Define shock. Write the mechanism of shock in detail.
11. Write the mediators of inflammation

**Short Answers: Answer All the questions**

**10X2=20**

12. Define and classify gangrene.
13. What are MHC proteins?
14. Give two examples for food allergy, chemical allergy and drug allergy.
15. Define inflammation. List the chemical mediators of inflammation.
16. Define hypertrophy and hyperplasia
17. Write the impact of smoking on lung health.
18. Write the difference between Mania and depression.
19. Define and classify obesity.
20. Write the signs and symptoms of asthma.
21. Write the causative organism for urinary tract infections.

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# ADICHUNCHANAGIRI UNIVERSITY

Pharm.D II year Examination – July 2021

TIME: 3 Hours

MAX.MARKS: 70

SUB: Pharmaceutical Microbiology

Q P Code: - 44202

**INSTRUCTIONS:** 1. Your answer should be specific to the questions asked.

2. Write legibly.

3. Write the same question numbers as they appear in this question paper.

4. Draw neat labelled diagrams wherever necessary.

**Long Essay: Answer any Two**

**2X10=20**

1. Write the mechanism of action, principle, procedure, merits and demerits of sterilization by Gamma radiation.
2. Explain in detail about various antigen-antibody reactions with examples.
3. Discuss the microbial characteristics, prevention and treatment of Tuberculosis and Cholera.

**Short Essay: Answer any Six**

**6X5=30**

4. Classify bacteria based on: i) Incubation temperature ii) Metabolic process.
5. Explain bacterial growth curve with diagram.
6. List the methods of isolation of pure culture of bacteria and briefly explain any two methods.
7. Enumerate the factors affecting disinfectant process and explain any two factors in detail.
8. Define and characterize bacterial endotoxins and exotoxins with examples.
9. Write a note on Sandwich Elisa test.
10. Explain the method of culture sensitivity testing.
11. Write in detail about Hepatitis.

**Short Answers (Answer all the questions)**

**10x2=20**

12. Contributions of Louis Pasteur.
13. Types of flagellated bacteria
14. Name any four chemicals used for sterilization.
15. What is Ultra-high temperature (UHT) pasteurization.
16. Define the terms synchronous culture and continuous culture.
17. Name any four parts of a complex virus.
18. Define Opsonisation reaction.
19. Define MIC and Zone of Inhibition.
20. Define 'D' value and 'Z' Value.
21. List any four factors affecting growth of bacteria

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**ADICHUNCHANAGIRI UNIVERSITY**

**Pharm.D II Year Examination – July 2021**

**TIME: 3 Hours**

**MAX.MARKS: 70**

**SUB: Pharmacognosy and Phytopharmaceuticals**

**Q P Code: - 44203**

- INSTRUCTIONS:**
1. Your answer should be specific to the questions asked.
  2. Write legibly.
  3. Write the same question numbers as they appear in this question paper.
  4. Draw neat labelled diagrams wherever necessary.

**Long Essay: Answer any Two**

**2X10=20**

1. Describe different methods of classification of crude drugs with examples. Give its advantages and disadvantages.
2. Explain in detail on collection, harvesting and drying of crude drugs.
3. Define Pharmacognosy. Describe the history and scope of Pharmacognosy in detail

**Short Essay: Answer any Six**

**6X5=30**

4. Write the biological source, active constituents, method of preparation and uses of honey
5. Write a note on differences between organized and un organized drugs with example.
6. Describe the cultivation and collection of Cinnamon
7. Explain with a neat labelled diagram of microscopy and powder microscopical characters of Fennel
8. Define carbohydrates. Give the difference between gums and mucilage.
9. Define lipids. Explain the chemistry and different method of extraction of lipids.
10. Explain the source, method of production and uses of Castor oil
11. Define and classify proteins. Discuss about method of analysis of proteins.

**Short Answers (Answer all the questions)**

**10x2=20**

12. What are gibberlins? Give its significance
13. Give the source, chemical constituents and uses of Rauwolfia,
14. Write the powder microscopic characters of liquorice
15. What are polysaccharides? Give example.

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16. Define iodine value, give its significance.
17. Give the chemical constituents and uses of linseed oil
18. Give the general properties of proteins.
19. Explain the cell wall components and their significance.
20. Define Pharmacognosy and phytopharmaceuticals.
21. What are organized and unorganized drugs give example

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ACU, 07-07-2021, 9:30 am to 12:30 pm

**ADICHUNCHANAGIRI UNIVERSITY**  
**Pharm.D II Year Examination – July 2021**

**TIME: 3 Hours**

**MAX.MARKS: 70**

**SUB: Pharmacology - I**

**Q P Code: - 44204**

- INSTRUCTIONS:**
1. Your answer should be specific to the questions asked.
  2. Write legibly.
  3. Write the same question numbers as they appear in this question paper.
  4. Draw neat labelled diagrams wherever necessary.

**Long Essay: Answer any Two**

**2X10=20**

1. Classify cholinergic drugs with examples. Explain the pharmacology of Acetylcholine
2. Enumerate different routes of drug administration and write the merits and demerits of oral and parenteral routes of drug administration
3. Classify antihypertensive agents with examples. Explain the mechanism of action and therapeutic uses of ACE inhibitors

**Short Essay: Answer any Six**

**6X5=30**

4. Write a note on monoaminooxidase (MAO) inhibitors
5. Explain different phases of general anaesthesia
6. Classify Hypnotics & Sedatives with examples. Explain the pharmacology of diazepam.
7. Classify different types of insulin. Explain its pharmacology.
8. Classify anti-anginal drugs with examples. Write the mechanism of action and therapeutic uses of Nitrates
9. Define biotransformation. Explain briefly phase I and II reactions
10. Classify anti-thyroid drugs. Write the pharmacological action of any one drug
11. Explain the pharmacology of Aspirin

**Short Answers (Answer all the questions)**

**10x2=20**

12. Write any two clinical uses of salbutamol
13. Define Mucolytics. Give any two examples
14. Define and give two examples for tocolytics
15. Define autocoids. Give any two examples
16. Write any two clinical uses of prostaglandins
17. Write the symptoms of acute alcohol intoxication
18. Mention anti-myasthenia gravis agents
19. Mention the stages of Pre-clinical studies
20. Clinical uses & adverse effects of Fluoxetine
21. What are Adverse drug reactions? Give Example.



**ADICHUNCHANAGIRI UNIVERSITY**  
**Pharm.D II Year Examination – July 2021**

**TIME: 3 Hours**

**MAX.MARKS: 70**

**SUB: Community Pharmacy**  
**Q P Code: - 44205**

- INSTRUCTIONS:**
1. Your answer should be specific to the questions asked.
  2. Write legibly.
  3. Write the same question numbers as they appear in this question paper.
  4. Draw neat labelled diagrams wherever necessary.

**Long Essay: Answer any Two**

**2X10=20**

1. Define patient counselling; Write a detailed note on objectives & stages of patient counselling.
2. Discuss balance diet; write a note on treatment and prevention of deficiency disorders.
3. Define hepatitis and write a note on causes, clinical presentation and prevention of hepatitis.

**Short Essay: Answer any Six**

**6X5=30**

4. Define health screening; write a brief note on methods for screening blood pressure.
5. Define prescription, explain different parts of prescription.
6. Write a note on ABC analysis.
7. Explain code of ethics for community pharmacist.
8. Write a note on health promotion for children.
9. Write a note on medication adherence scale.
10. Write briefly about Gastro-Intestinal disturbances.
11. Role of pharmacist in Rational Drug Therapy.

**Short Answers (Answer all the questions)**

**10x2=20**

12. Legal requirements for community pharmacy.
13. Factors affecting medication adherence.
14. Lung function test.
15. WHO definition of health.
16. Role of pharmacist in family planning.
17. List out different types of inventory control techniques.
18. Pyrexia.
19. Ophthalmic symptoms,
20. Name 4 classes of OTC drugs with examples.
21. Coding and stocking in community pharmacy.

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**ADICHUNCHANAGIRI UNIVERSITY**

**Pharm.D II Year Examination – July 2021**

**TIME: 3 Hours**

**MAX.MARKS: 70**

**SUB: Pharmacotherapeutics I**

**Q P Code: - 44206**

- INSTRUCTIONS:**
1. Your answer should be specific to the questions asked.
  2. Write legibly.
  3. Write the same question numbers as they appear in this question paper.
  4. Draw neat labelled diagrams wherever necessary.

**Long Essay: Answer any Two**

**2X10=20**

1. Define Myocardial Infarction, Explain the etiopathogenesis, risk factors, treatment objectives and therapeutic management of acute myocardial Infarction.
2. Explain the etiology, pathophysiology, clinical presentation, goals of treatment and therapeutic management of type 2 diabetes Mellitus.
3. Explain the etiopathogenesis and pharmacotherapy of COPD.

**Short Essay: Answer any Six**

**6X5=30**

4. Explain the clinical features, diagnosis and treatment of hyperthyroidism.
5. Explain pharmacotherapy of Glaucoma.
6. Explain the pharmacotherapy of Congestive heart failure.
7. Explain the clinical presentation and treatment of osteoporosis.
8. Explain the pathogenesis and treatment of asthma.
9. Define and classify arrhythmia and add a note on its pathophysiology.
10. Explain goal of drug therapy and general prescribing guidelines for Paediatric patients.
11. Describe the pharmacotherapy of hypertension.

**Short Answers (Answer all the questions)**

**10x2=20**

12. Enlist 4 Teratogenic drugs.
13. Define Diabetic Ketoacidosis
14. Adverse effects of statins.
15. Enumerate the ADR of Digoxin.
16. Define nitrate tolerance.
17. Explain the treatment of Viral Conjunctivitis.
18. Define rational drug use.
19. Define malignant hypertension and its treatment.
20. Enumerate adverse effects of ACE inhibitors.
21. Diagnostic tests for myocardial infarction.

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