Til pharma P

Pharm D III Year Examination - July 2021

TIME: 3 Hours

MAX.MARKS: 75

SUB: Pharmacology-II

QP CODE: 44301

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

- What is cancer? Classify anticancer agents with examples. Write the mechanism
 of action, adverse effects and therapeutic effects of methotrexate/mercaptopurine
- Name the causative organisms of malaria. Classify antimalarials with examples.
 Write the mechanism of action, adverse effects and therapeutic effects of chloroquine
- 3. Define Gene Expression and Give genetic elements that controls gene expression

Short Essay: Answer any Seven

5X7=35

- 4. What are signs and symptoms of mercury poisoning?
- Classify antifungal agents with examples. Write the antifungal spectrum, mechanism of action, adverse reactions and therapeutic uses of Amphotericin B.
- 6. Classify immunosupressants with examples. Write the pharmacology of cyclosporine.
- 7. Factors regulating Transcription
- 8. Define immunostimulant and immunosuppressant with two examples.
- Treatment for iron/lead/arsenic poisoning
- 10. What are drugs used in treatment of round worm infection?
- 11. What are different types of leprosy? Classify antileprotic drugs with examples.

Short Answers: Answer All the questions

2X10=20

- 12. What is therapeutic index?
- Super infection

PTO

- 14. Restriction Point
- 15. Recombinant DNA technology
- 16. Mutation
- 17. Four uses Chloramphenicol
- 18. Co trimoxazole
- 19. What is bacterial resistance
- 20. What is Cinchonism
- 21. Enlist the drugs causing ototoxicity

Pharm.D III Year Examination - July 2021

TIME: 3 Hours MAX.MARKS: 70

SUB: Pharmaceutical Formulations Q P Code: - 44306

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

- Classify granulation techniques. Describe the wet granulation method along with equipment used in each step.
- (a) Emphasize on different stages involved in sugar coating of compressed tablets.
 - (b) Describe the defects in film coating process.
- 3. Describe the formulation requirements for the manufacture of parenterals.

Short Essay: Answer any Six

6X5 = 30

- 4. Write the filling of hard gelatin capsules.
- 5. Describe formulation of ophthalmic suspensions.
- 6. Explain the various methods used for filling of liquid orals.
- Write the various formulation approaches used in transdermal drug delivery systems.
- 8. Write a note on ocusert.
- 9. Give the quality control tests for hard gelatin capsules.
- Write various approaches used in parenteral controlled drug delivery system.
- 11. Explain the manufacturing of ophthalmic ointment.

Short Answers (Answer all the questions)

10x2=20

- 12. Write any two applications of nasal drug delivery systems.
- 13. Define nanoparticles.
- 14. Classify liquid dosage forms with examples.
- 15. List the manufacturing defects of tablets.
- 16. Differentiate between hard gelatin and soft gelatin capsules.
- 17. What are the different methods of sealing of ampoules?
- 18. Give two formulation approaches in buccal drug delivery.
- 19. Give examples of two anti-oxidants and preservatives used in liquid orals.
- 20. Name sterilization methods for eye ointment
- 21. Write the merits and demerits of glass as a packaging material for parenterals.

Pharm.D III Year Examination - July 2021

TIME: 3 Hours

MAX.MARKS: 70

SUB: Medicinal Chemistry Q P Code: - 44305

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

- Classify cephalosporins. Explain the SAR of tetracyclines and give the synthesis of chloramphenicol (2+5+3)
- 2. Classify anti malarials with examples. SAR of 7-chloro-4-amino quinolines. Outline a method of synthesis for pamaquine and Chloroquine
- 3. Classify sulfonamides with examples. Give the SAR and MOA of sulfonamides. Give the synthesis of sulamethoxazole.

Short Essay: Answer any Six

6X5=30

- 4. Give the SAR of sulfonylurea and a method of synthesis for tolbutamide.
- 5. Write the Hansch and free Wilson methods for QSAR with their merits and demerits.
- 6. SAR of thiazide diuretics. Synthesis of Ethacrynic acid.
- 7. Write a note on anti-thyroid drugs. SAR of thyroid hormones.
- 8. SAR of quinolone antibacterials. Outline the synthesis for tolnaftate.
- Synergistic action of cotrimoxazole and outline a method of synthesis for dapsone.
- 10. Classify anti neo plastics. Write on MOA of anti metabolites with examples.
- 11. Outline a method of synthesis for verapamil and propranolol.

Short Answers (Answer all the questions)

10x2=20

- 12. MOA of alkylating agents as anti neoplastic agents.
- 13. What are anti viral agents? Give examples of 2 anti viral drugs.
- 14. Difference between a carrier prodrug and bioprecursor.
- 15. Write the structure and uses of 1) Cetylpyridium chloride 2) Hexyl resorcinol
- 16. Give structure and uses sulfamethoxazole and trimethoprim.
- 17. Give structure and use of Iodipamide and fluorescein sodium.
- 18. Give examples of anti protozoal agents.
- 19. Classify anthelmintics.
- 20. Structure and use of estradiol and nandrolone.
- 21. Anti tubercular agents.

ADICHUNCHANAGIRI UNIVERSITY Pharm.D III Year Examination – July 2021

TIME: 3 Hours

MAX.MARKS: 70

SUB: Pharmaceutical Jurisprudence Q P Code: - 44304

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 the constitution and function of pharmacy council of India.
- 2. What are the precedents and subsequent conditions for grant of license to manufacture of drugs specified in schedule C, C1 and X.
- 3. Explain the design and construction of bonded laboratory

Short Essay: Answer any Six

6X5=30

- 4. What are the offenses and penalties under narcotic and psychotropic substances Act?
- 5. Education regulation under pharmacy act 1948
- 6. Define the terms Coca leaf, Opium and manufactured drugs under NDPS Act 1985
- 7. Define invention. Give the inventions not patentable according to the patents act
- What are the procedures followed by drug inspector for the withdrawal of the sample
- 9. Discuss the role of pharmacist in relation to his job
- Define magic remedy .Write the classes of advertisements prohibited under Drugs and Magic Remedies Act
- 11. State the objectives of Drug Price Control Order 1995 .How do you calculate retail price of drug formulation

Short Answers (Answer all the questions)

10x2=20

- 12. What is Repacking licence
- 13. Define Schedule N
- 14. Explain the term "cruelty to animals"
- 15. What is Drugs Enquiry Committee
- 16. State Indian drug policy
- Reproduce pharmacist Oath
- 18. Objectives of Medicinal and Toilet preparation Act
- 19. Specimen label for Schedule G Drug
- 20. Define Spurious drugs
- 21. Qualification of drug inspector

Pharm.D III Year Examination – July 2021

TIME: 3 Hours

MAX.MARKS: 70

SUB: Pharmacotherapeutics II Q P Code: - 44303

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

- Explain the pathophysiology, diagnosis, clinical presentation and management of Pneumonia.
- 2. Explain pathogenesis and pharmacotherapy induced nausea and vomiting.
- Write a note on basic principles of cancer therapy. Explain in detail the management of Breast cancer.

Short Essay: Answer any Six

6X5=30

- 4. Classify urinary tract infection and write its management.
- 5. Give the classification and management of Urinary Tract Infections.
- Explain the management of Pharyngitis and sinusitis.
- 7. Explain the various methods used in the management of acute renal failure.
- 8. Explain modified DUKE criteria for the diagnosis of Endocarditis.
- 9. Explain the management of any two fungal infections
- Discuss the etiopathogenesis and management of Psoriasis.
- 11. Explain the chemotherapy of leukemia.

Short Answers (Answer all the questions)

10x2=20

- 12. Write the Life cycle of Malaria.
- 13. Explain the Treatment for impetigo.
- 14. What are the clinical manifestations of gout?
- Enlist allergens for eczema.
- 16. Enlist diagnostic tests for HIV
- 17. What are the signs and symptoms of Systemic Lupus Erythematous?
- 18. What is pulse therapy?
- 19. Management of Atopic Dermatitis.
- 20. Define Septicemia.
- 21. Explain multi drug resistance Tuberculosis.

Pharm.D III year Examination - July 2021

TIME: 3 Hours

MAX.MARKS: 70

SUB: Pharmaceutical Analysis Q P Code: - 44302

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

- Describe the construction and working of a Gas Chromatography? Emphasize on the ideal characteristics of stationary phases and mobile phases used in Gas Liquid Chromatography
- 2. a) Derive Beer's and Lamberts Law b) what are the applications advantages and limitations of Beer's law.
- Describe the preparation, activation of plates &adsorbents used in the TLC & write its application.

Short Essay: Answer any Six

6X5=30

- 4. Explain briefly the instrumentation of HPLC
- 5. Discuss different sample handling techniques in IR spectroscopy
- Compare the principle techniques limitations and application of paper chromatography with electrophoresis.
- 7. Explain the principle underlying "Dead- Stop end point technique" and Null point potentiometry.
- 8. Describe the terms fluorescence & phosphorescence Depict both the phenomena by energy diagram
- 9. What is the basic requirement for a nucleus to exhibit NMR phenomenon?
- 10. Write a note on ICH Guidelines
- 11. Define Validation? Classify and explain each type in brief.

Short Answers (Answer all the questions)

10x2=20

- 12. What is the principle in Amperometric Titrations.
- 13. Define Specific Conductance & Equivalent conductance
- 14. What is a wave number? What unit is used to express it?
- 15. Define and explain quality assurance.
- 16. Define Rf value. Write its significance.
- 17. Define Red & Blue Shift with example
- 18. Why is DME used? What are the advantages?
- 19. Write the statement of Bragg's law.
- 20. Write a note on temperature programming and its importance on GC.
- 21. How is the efficiency of an ion-exchange resin measured?