

Total No. of Questions : 18

Total No. of Pages : 02

D. Pharma (Sem.-1)

PHARMACEUTICAL ORGANIC CHEMISTRY

Subject Code : PD104T-19

M.Code : 78162

Date of Examination :23-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. What do you understand by protic molecules with examples?
2. What do you understand by stereo isomerism?
3. Write a note on solubility of organic compound.
4. Write the mechanism of action of Diazonium salts.
5. Explain esterification along with examples.
6. Write any qualification test of Amino acid.
7. What are Electrophilic addition reactions?

SECTION-B

8. Write a note on the Basicity of amines.
9. Write a detailed note on SN1 and SN2 reactions.
10. Give the mechanism of action of Kolbe's reaction.

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11. Explain in detail Baeyer strain theory.
12. Write a note on Libermann's Nitrosation reaction.
13. Explain qualitative test of Carbohydrates.
14. Write a note on Schotten Bauman reaction.
15. Write electrophilic addition reaction of alkanes.

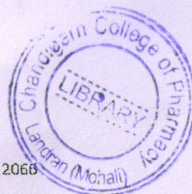
SECTION-C

16. What do you understand by Riemer- Tiemer reaction?
17. Explain in detail Sachse Mohr theory.
18. Write a detailed note on E1 and E2 reactions.

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DEL-2024

Total No. of Questions : 12

Total No. of Pages : 02

Pharm.D (Sem.-1)
PHARMACEUTICS
Subject Code : PD102T-19
M.Code : 78160

Date of Examination : 02-01-2025

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

- INSTRUCTIONS TO CANDIDATES :
1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
 2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
 3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Define the following :
 - a. Dilling's formula for calculation of doses
 - b. Proof spirit
 - c. Eutectic mixtures
 - d. Creaming and cracking in emulsions
 - e. Insufflations
 - f. Surgical catgut
 - g. Decoction

SECTION-B

2. Write a note on different errors of prescription.
3. Write about different types of solid dosage forms with examples.
4. Write about scope of pharmacy education in India and abroad.

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5. Differentiate between apothecaries and avoirdupois systems of weight & measures.
6. Enlist salient features of latest edition of IP.
7. Differentiate between liniments and lotions.
8. Differentiate between maceration and percolation.
9. How biphasic dosage forms are advantageous over monophasic dosage forms?

SECTION-C

10. Classify Chemical incompatibilities. Describe incompatibilities causing evolution of gas with example and methods to overcome them.
11. What are suppository bases? Classify them with examples and describe in brief about their properties.
12. What are suspensions? Classify them with examples. Discuss different methods of their evaluation.

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DEC-2024

Total No. of Questions : 18

Total No. of Pages : 02

Subject Code : PD105T-19

M.Code : 78163

Date of Examination :18-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

- INSTRUCTIONS TO CANDIDATES :**
- 1. SECTION-A** contain **SEVEN** questions. Attempt any **FIVE** questions. Each question will carry **TWO** marks each.
 - 2. SECTION-B** contain **EIGHT** questions (Short Essay Type). Attempt any **SIX** questions. Each question will carry **FIVE** marks.
 - 3. SECTION-C** contain **THREE** questions (Long Essay Type). Attempt any **TWO** questions. Each question will carry **FIFTEEN** marks.

SECTION-A

Write briefly :

1. What do you understand by assay?
2. What is a buffer solution?
3. What are Medicinal gases? Illustrate with examples.
4. What is gravimetric analysis?
5. Explain the principle of precipitation titration.
6. Give the classification of acidifiers.
7. What do you understand by Iodometry?

SECTION-B

8. Write a note on accuracy and precision. Explain its types.
9. Write a note on complexometric titration.

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10. Explain the role of magnesium sulfate in cathartics.

11. What do you understand by pharmaceutical aids.
12. What are antacids? Explain the role of Magnesium hydroxide.
13. What are antimicrobial agents? Explain potassium permanganate in detail.
14. Explain the limit test of sulfate.
15. Write a note on electrolyte combination therapy.

SECTION-C

16. Explain in detail the measurement of radioactivity. Illustrate its clinical application.
17. Write a detailed note on Acidifiers. Illustrate with examples.
18. Write a detail note on redox titration.

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DCL-2024

Total No. of Pages : 02

Total No. of Questions : 12

Pharm.D (Sem.-1)
HUMAN ANATOMY & PHYSIOLOGY
Subject Code : PD101T-19
M.Code : 78159
Date of Examination : 20-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

- INSTRUCTIONS TO CANDIDATES :**
1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
 2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
 3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Write briefly :
- What are afferent & efferent nerves?
 - What are endocrine glands? Enlist various endocrine glands of the body.
 - What is CPR?
 - What is spermatogenesis?
 - How plasma is different from serum?
 - Define ganglia.
 - What are enzymes responsible for digestion of carbohydrates?

SECTION-B

2. Discuss respiratory changes during exercise.
3. Write a short note on adrenal gland.

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4. Write a short note on spleen.
5. How is oxygen transported in blood?
6. Explain the different steps involved in blood clotting.
7. What are the functions of mid brain and cerebellum?
8. Discuss briefly the physiology of hearing.
9. Explain the structure of freely movable joint with diagram.

SECTION-C

10. Explain the structure and physiology of heart with suitable diagram.
11. Write a note on different cranial nerves along with their functions.
12. Write different steps involved in skeletal muscle contraction.

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DEC-2024

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

Pharm.D (Sem.-2)
COMMUNITY PHARMACY
Subject Code : PD205T-19
M.Code : 80146

Date of Examination : 17-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Define community Pharmacy and its scope.
2. What are different Steps involved in the selection of site for community pharmacy?
3. Define a prescription and its parts.
4. Write about causes and prevention of Tuberculosis.
5. Write briefly about primary management of Diarrhoea.
6. Write about health according to WHO.
7. Write about various deficiency disorders and their prevention.

SECTION-B

8. Discuss the legal requirements in community pharmacy.
9. Define drug interactions. Give examples of drug-drug interaction.

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10. Write a note on essential drug concept and its significance.
11. Write a note on rational drug use, factors affecting rational drug use and methods to promote rational drug use.
12. Define pharmaceutical care. Write in detail about the principles of pharmaceutical care.
13. Write various tests for cholesterol, their methods and importance.
14. Discuss about various family planning measure and role of pharmacist in family planning.
15. Write about code of ethics for community pharmacists.

SECTION-C

16. Discuss outcomes, various stages, barriers and strategies to overcome barriers in patient counselling.
17. Define inventory control in a community pharmacy. Discuss in detail various methods of inventory control.
18. Define medication adherence. Discuss in detail about factors affecting medication adherence and role of pharmacist in improving medication adherence.

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Total No. of Questions : 12

Date of Examination : 14-12-2024

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. **Write briefly :**
- Explain briefly Leprosy.
 - Define Reactive oxygen species with example.
 - What are T and B cells?
 - What are transplantation antigens?
 - Describe Amyloidosis.
 - What is metastasis?
 - What is chæmia?

SECTION-B

2. Describe the mechanism of rejection of allograft.
3. What is Hepatitis? Discuss in detail the different types of hepatitis.

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4. Discuss the glycogen infiltration and glycogen storage diseases.
5. Describe protein calorie malnutrition.
6. Write the etiology and pathophysiology of Chronic Obstructive Airway Diseases.
7. Write a note on Food allergy.
8. Write a note on factor influencing healing of wounds.
9. Enumerate etiology and pathogenesis of Cancer.

SECTION-C

10. Define Cell injury? Explain the pathogenesis of cell injury. Add a note on various cellular adaptations.
11. Discuss the etiology, types, pathogenesis and complications of Myocardial Infarction.
12. Define acute inflammation. Explain the pathogenesis of acute inflammation. Add a note on the chemical mediators of inflammation.

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DEC-2024

Total No. of Questions : 12

Total No. of Pages : 02

Pharm.D (Sem.-2)
PHARMACEUTICAL MICROBIOLOGY

Subject Code : PD202T-19

M.Code : 80143

Date of Examination : 11-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contains SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- 1. Write briefly :**

- Define Immunology. Enlist Immunoglobulins.
- Define sterilization with an example.
- Name attenuated vaccines any two.
- Name two biological indicators.
- Which method is used for microbial assay of antibiotics?
- Give a table for the sterility criteria of the autoclave.
- Name the causative organism for malaria and hepatitis.

SECTION-B

2. Write a method for acid-fast staining for the identification of microbes.
3. Write the diagnostic test for typhoid and its applications.

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4. Diagrammatically explain the electron microscope and its types.
5. Write methods for sterility testing of ophthalmic formulations according to IP.
6. What are the different methods of microbial assay of antibiotics?
7. Write various methods for the isolation of bacteria.
8. Write a note on hepatitis.
9. What is an immunization program and write the importance of booster dose?

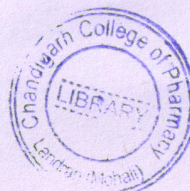
SECTION-C

10. Discuss in detail the evaluation of disinfectant by the phenol coefficient method.
11. **Elaborate the diagnostic test :**
 - a. southern blot
 - b. Widal.
12.
 - a. Explain total and viable counting techniques of bacteria.
 - b. Difference between active and passive immunity.

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DEL-2024

Total No. of Questions : 18

Total No. of Pages : 02

Pharm.D (Sem.-2)
PHARMACOLOGY-I
Subject Code : PD204T-19
M.Code. : 80145
Date of Examination : 09-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

- INSTRUCTIONS TO CANDIDATES :**
- 1. SECTION-A** contain **SEVEN** questions. Attempt any **FIVE** questions. Each question will carry **TWO** marks each.
 - 2. SECTION-B** contain **EIGHT** questions (Short Essay Type). Attempt any **SIX** questions. Each question will carry **FIVE** marks.
 - 3. SECTION-C** contain **THREE** questions (Long Essay Type). Attempt any **TWO** questions. Each question will carry **FIFTEEN** marks.

SECTION-A

Write briefly :

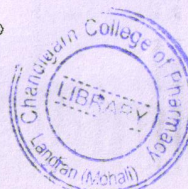
1. Explain the factors modifying drug effects.
2. What are the mydratics?
3. Name the hypertensive drugs used in hypertensive crisis and pregnancy.
4. Give two examples for cognition enhancers.
5. Define mucolytic.
6. Give examples for insulin analogues.
7. Give physiological significance of autocoids.

SECTION-B

8. Write a note on preclinical evaluation of new drugs.
9. Classify drugs used in Parkinson's disease.

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10. What is angina pectoris and discuss briefly its types?
11. Write the mechanism of actions and uses of disulfiram.
12. Explain the pharmacology of atypical antipsychotics.
13. Briefly discuss pharmacology of bronchodilators.
14. Highlight on pharmacological actions and therapeutic use of oxytocin.
15. Classify antihistamines. Write a note on histamine receptors.

SECTION-C

16. Write different routes of administration along with their merits & demerits.
17. Classify anti cholinergic agents. Explain the mechanism of action, pharmacological actions, adverse effects and therapeutic use of any one drug.
18. Classify local anesthetics. Explain their mechanism of action and clinical uses.

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Roll No.

Total No. of Pages : 02

Total No. of Questions : 12

Pharm.D (Sem.-2)

PHARMACOGNOSY & PHYTOPHARMACEUTICALS

Subject Code : PD203T-19

M.Code : 80144

Date of Examination : 13-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contains SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Write briefly :
 - a) Define Pharmacognosy.
 - b) Powder microscopy of *Nux vomica*.
 - c) Chemical test for Flavonoids and alkaloids.
 - d) Write the sources, active constituents and uses of Honey.
 - e) Difference between organized and unorganized drugs.
 - f) Chemical test for carbohydrates and proteins.
 - g) Mention the sources, active constituents and uses of Castor Oil.

SECTION-B

2. Write a short note on Natural Pesticide.
3. Write the sources, active constituents and uses of Clove and Cinnamon.

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4. Write in detail about cell wall constituents and cell inclusions with their functions.
5. Give a note on current and upcoming Scope of pharmacognosy.
6. Detail study of methods of cultivation of medicine plants.
7. Write a detail on pharmacognosy of honey.
8. Write the powder microscopical characteristics of any one bark drug.
9. Discuss the method of analysis of proteins.

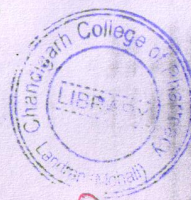
SECTION-C

10. a) Define and classify Surgical Dressing add a note on Cotton.
b) Difference between volatile oil and Fixed oil.
11. Define Adulteration and discuss different methods of Adulteration.
12. a) Write a note on History and Scope of Pharmacognosy.
b) Enumerate the classification of crude drugs.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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DEC-2024

Total No. of Questions : 12

Total No. of Pages : 02

Pharm.D. (Sem.-3)
MEDICINAL CHEMISTRY
Subject Code : PD-305T-19
M.Code : 92169
Date of Examination : 02-01-2025

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Write short notes on :

- What are the side effects of Ethionamide? Give its chemical structure.
- What are the uses of isopropyl alcohol?
- How do preservatives act as anti-infective agents?
- What is ligand-based CADD designing?
- Enlist various diagnostic agents.
- Define QSAR. Enlist various parameters of QSAR.
- What are glitazones? Give the chemical name and structures of any two agents.

SECTION-B

2. Describe the mechanism of anticoagulation.
3. Write in detail about mechanism of action of sulphonamide.

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4. Write mechanism of action of penicillin.
5. Discuss the treatment of malaria using 4-aminoquinolones and 8-aminoquinolines.
6. What are anticancer agents? Classify them with example. Write synthesis of any one drug.
7. Discuss hyperthyroidism with synthesis of any one drug.
8. What are anti-TB agents? Classify them with example. Write synthesis of any one drug.
9. What is urinary tract anti-infective? Classify them with suitable example.

SECTION-C

10. Classify antibiotics on the basis of structures. Give detailed account on penicillin class of antibiotics.
11. Discuss in detail on the classification of antifungal. Write the mechanism of action, SAR of azoles antifungal.
12. a) Classify antihyperlipidemic drugs with structures. Give MOA of Statins.
b) Write a note on first generation calcium channel blockers.

Total No. of Questions : 12

Total No. of Pages : 02

Pharm.D. (Sem.-3)

PHARMACEUTICAL FORMULATIONS

Subject Code : PD306T-19

M.Code : 92170

Date of Examination : 23-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. **Write briefly :**
 - a. Lubricants with examples.
 - b. Coating agents with examples.
 - c. Hard gelatin capsules.
 - d. Ointment bases.
 - e. Controlled drug delivery systems.
 - f. Occuserts.
 - g. Cracking in emulsions.

SECTION-B

2. Write a brief note on quality control tests for capsules.
3. Classify tablets and write advantages of each type of tablet.
4. Classify containers used in parenteral formulations. Write about their ideal properties.

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5. Write a note on buccal drug delivery systems.
6. Write about pharmaceutical jellies, their types and method of preparation.
7. Write in details about implants.
8. What is zeta potential? Write about its role in flocculation of suspensions.
9. Differentiate between flocculated and deflocculated suspensions.

SECTION-C

10. Discuss in detail about methods of preparation of emulsions and their evaluation.
11. What is the role of displacement value in preparation of suppositories? How it can be calculated. Discuss different methods of preparation of suppositories.
12. What are Nasal drug delivery systems? Write about advantages and disadvantages of these systems.

Roll No.

Total No. of Pages : 02

Total No. of Questions : 12

Pharm.D. (Sem:-4)

BIOPHARMACEUTICS & PHARMACOKINETICS

Subject Code : PD405T-19

Paper ID : 93764

Date of Examination : 19-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of SEVEN questions carrying TWO marks each. Attempt any FIVE.
2. SECTION - B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

I. Write short notes on :

- a) Define disposition.
- b) Name the rate limiting steps in drug absorption.
- c) Define elimination.
- d) What is the difference between linear and non-linear PK?
- e) Define pharmacokinetics.
- f) Give the formula for AUMC and MRT.
- g) Differentiate between absolute and relative bioavailability.

SECTION-B

2. List out the various methods of assessment of bioavailability and explain any two.
3. Explain statistical moment's theory.

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4. Detail about the various factors leading to non-linearity.
5. How is drug distributed to CNS through blood-brain barrier?
6. Brief about advantages and disadvantages of compartment modeling.
7. Discuss briefly MRT for various compartment models.
8. Give an account on two compartment open model.
9. Elaborate repetitive extravascular dosing (one compartment open model).

SECTION-C

10. Discuss in detail the various physio-chemical factors affecting drug absorption.
11. What do you understand by pharmacokinetic model? Classify the pharmacokinetic models; give their salient features, advantages and disadvantages.
12. Describe one-compartment open model for a drug administered as IV Bolus. Give the schematic representation, graphs and equations for the same.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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DEL-2024

Total No. of Questions : 12

Pharm.D. (Sem.-04)
PHARMACOTHERAPEUTICS-III

Subject Code : PD401T-19

M.Code : 93760

Date of Examination : 09-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. Write short notes on :

- Enlist various drugs induced blood disorders.
- What are anti-coagulants?
- Enlist various types of jaundice.
- What is gastro-esophageal reflux disease?
- What is the treatment of obsessive compulsive disorder?
- Discuss about sleep disorders.
- What is anemia? Enlist various types of anemia.

SECTION-B

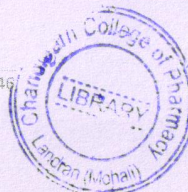
2. Discuss about treatment and pharmacotherapy of anemia.
3. Describe various drugs for anxiety disorders.

4. What is the pathophysiology and risk management of inflammatory bowel disease?
5. Write a short note on pain management.
6. Describe management of Schizophrenia.
7. Write a short note on evidence based medicine.
8. Discuss in detail about pharmacotherapy of Parkinsonism.
9. What are the various types of neuralgia and its management?

SECTION-C

10. Describe the etiology , clinical manifestation, pathophysiology and pharmacotherapy of stroke.
11. Define and classify seizures. Write a note on their characteristics and drugs employed in management.
12. Describe the pharmacotherapy of peptic ulcer disease.

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DEC-2024

Roll No.

Total No. of Questions : 12

Total No. of Pages : 02

Pharm.D. (Sem.-4)
CLINICAL TOXICOLOGY

Subject Code : PD406T/19

M. Code : 93765

Date of Examination : 13-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of SEVEN questions attempt any FIVE carrying TWO marks each.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- I. Write short notes on :
- Classify different type of venomous snakes.
 - Define UFD and MLD.
 - What is toxic syndromes?
 - Define and classify antidotes.
 - Define Adjunctival antidotes with example.
 - Define and mention the composition of obsolete antidote.
 - What is ASV?

SECTION-B

2. Explain ABCD management of Poisons?
3. Write briefly about non-steroidal anti-inflammatory drugs overdose.
4. Write about treatment for radiation poisoning.

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5. Write a note on arsenic poisoning and its treatment.
6. Write a note on first aid measures of snake poisoning.
7. Write briefly about cannabis and LSD.
8. Write a note on food poisoning.
9. Write the signs and symptoms of drug abuse and treatment of tobacco use.

SECTION-C

10. Explain in detail about general principle involved in the management of poisoning.
11. Describe the clinical symptoms and management of chronic poisoning with iron, mercury and copper.
12. What are the signs and symptoms and treatment of opioid dependence?

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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DEL-2024

Total No. of Questions : 12

Total No. of Pages : 02

Pharm.D. (Sem.-4)
CLINICAL PHARMACY
Subject Code : PD403T/19
M. code : 93762
Date of Examination : 14-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is contains SEVEN questions carrying TWO marks each and students have to attempt any FIVE questions.
2. SECTION-B contains EIGHT questions carrying FIVE marks each and students have to attempt any SIX questions.
3. SECTION-C contains THREE questions carrying FIFTEEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write short notes on :

- Mention three objectives of clinical pharmacy.
- Role of liver enzymes in hepatic diseases.
- Thyroid Function tests.
- Define communication skills.
- Define medication history interview.
- Tests associated with cardiac disorders.
- Enlist pulmonary functions tests.

SECTION-B

2. Write notes on pharmacist intervention in drug therapy monitoring.
3. Write notes on factors contribution and prevention of medication errors.

1 | M-93762

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4. Explain the methods of detection of medication errors.
5. Discuss protocol for case presentation.
6. Write a note on clinical importance of blood urea, serum creatinine and plasma sodium levels.
7. Elaborate on responsibilities of clinical pharmacist in hospital patient care areas.
8. What is systemic approach in answering queries received in drug information centre?
9. Write notes on causality assessment in adverse drug reaction.

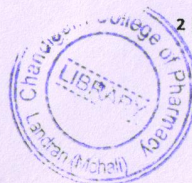
SECTION-C

10. Define Drug Utilization Evaluation (DUE). Describe the DUE cycle and mention the role of a clinical pharmacist in DUE.
11. Discuss the activities of clinical pharmacist in a multispecialty hospital.
12. Discuss the laboratory test and interpretation of haematological disorders.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

2 | M-93762

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Total No. of Questions : 18

Total No. of Pages : 02

Pharma. D. (Sem.-1)
MEDICINAL BIOCHEMISTRY
Subject Code : PD103T-19
M.Code : 78161

Date of Examination : 16-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

1. What is the citric acid cycle and what is its biological significance?
2. Can a deficiency of coenzymes lead to disease. If so, which diseases are associated with coenzyme deficiency?
3. What is the importance of understanding transport processes in biochemistry?
4. What is the role of cholesterol in the body?
5. How are fatty acids and lipids transported within the body?
6. What are some of the end products of amino acid catabolism?
7. What are some of the key parameters that are measured in urine analysis?

SECTION-B

8. What are some of the key functions of ATP in biological systems, and how is it synthesized within the cell?
9. Isoenzymes are multiple forms of the same enzyme that have different properties and functions. Discuss their therapeutic and diagnostic applications in the medical field.

1 | M-78161

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10. What do you mean by defective metabolism of lipids?
11. Explain the principles behind RIA and how it works. How does RIA use radioisotopes to detect and quantify analytes in biological samples?
12. What do you mean by qualitative and semi-quantitative tests? Explain the selected enzyme activity determination test.
13. Define the Lipid profile test and explain how to determine serum lipids?
14. Define Electrolytes and explain how to determine sodium and bicarbonates in body fluids?
15. Explain the Glucose tolerance test and write its significance.

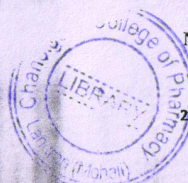
SECTION-C

16. Describe the Hexose monophosphate shunt or pentose phosphate pathway.
17. Describe the metabolism of cholesterol in the body, including the different pathways involved in cholesterol synthesis, absorption, and elimination.
18. Explain any two kidney function tests in detail.

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21 M-78161

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DGL-2024