Roll No.
Total No. of Questions : 12

Total No. of Pages: 02

Pharm.D. (Sem.-3) PHARMACOTHERAPEUTICS-II Subject Code: PD303T-19 M.Code: 92167 Date of Examination: 13-12-2023

Time: 3 Hrs.

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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) Give example of commonly used antifungal agents.
 - b) Discuss the clinical features and diagnosis of scabies.
 - c) Mention the classes of antiemetic drugs.
 - d) Discuss the management of chemotherapy-induced nausea and vomiting.
 - e) Explain the role of immunosuppressants.
 - f) Define psoriasis.
 - g) Define chronic renal failure.

SECTION-B

- 2. Discuss the pharmacological management of gout.
- 3. Explain the role of corticosteroids in the management of systemic lupus erythematosus.
- 4. Explain the pathophysiology and treatment of osteoarthritis.

- 5. Discuss the clinical features and treatment options for psoriasis, focusing on topical and systemic therapies
- Discuss the clinical features diagnosis and treatment of gonorrhea; with a particular focus on antibiotic resistance.
- Explain the importance of antibiotic prophylaxis in surgical procedures, providing specific examples.
- Explain the pharmacological management of protozoal infections.
- Discuss the key differences between septicemia and urinary tract infections» Explain the choice of antibiotics for treating each condition.

SECTION-C

- Explain the management of HIV and opportunistic infections, including antiretroviral therapy and prophylactic measures. Provide examples of opportunistic infections.
- You are managing a patient with chronic renal failure. Discuss the pharmacological and non-pharmacological approaches to treatment, including the role of renal dialysis.
- Discuss the principles of chemotherapy for breast cancer, including the use of targeted therapies. Explain the importance of individualized treatment plans.

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Total No. of Questions: 18 Roll No.

Total No. of Pages: 02

(Sem.-3)

Subject Code: PD301T-19 PHARMACOLOGY-II Pharm.D M.Code: 92165

Date of Examination: 08-12-2023

Time: 3 Hrs.

Max. Marks: 70

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

SECTION-A

Write briefly:

- Why amoxicillin is given in combination with potassium clavuianate?
- What are lapra reactions?
- What is the composition of co-trimoxazole?
- Give examples of anthelmintics.
- 5. What is the use of warfarin sodium?
- Give examples of first line anti-tubercular drugs.

6.

Define transcription and translation.

SECTION-B

- Write a note on oral anti-coaguiants.
- Discuss the MOA, side effects and uses of acyclovir.

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- 10. Write a brief note on immunosuppressants.
- Mention the standard drug regimen for leprosy.
- 12. Describe the principle, procedure and applications of DNA recombinant technology.
- 13. Discuss briefly about the MAP kinase signal transduction pathway.
- Classify anti-malarial drugs.
- 15. Discuss briefly about eukaryotic DNA replication.

SECTION-C

- 16. Classify diuretics. Describe the complete pharmacology of furosemide.
- 17. Explain the complete process of protein synthesis.
- 18. Write the MOA, side effects and uses of following:
- b) Chloramphenicol.

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Total No. of Questions: 12

PHARMACEUTICAL FORMULATIONS Subject Code: PD306T-19 Pharm.D.(Sem.-3)

M.Code: 92170

Date of Examination: 20-12-2023

Time: 3 Hrs.

Max. Marks: 70

- INSTRUCTIONS TO CANDIDATES:
 1. SECTION-A contain SEVEN questions answer any FIVE carrying TWO marks
- SECTION-B contains EIGHT questions carrying FIVE marks each and students have to attempt any SIX questions.
 SECTION-C contains THREE questions carrying FIFTEEN marks each and students have to attempt any TWO questions.
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SECTION-A

- Answer briefly:
- Define tablet formulation.
- What do you mean by semi solids preparation, also give examples?
- Discuss the benefits of implants.
- What are the special features which are required for parenterals formulations?
- Enlist the various types of binders used in tablet formulation.
- Give the advantages of solid dosages form.
- g) Enlist the various benefits of jellies.

SECTION-B

- What do you mean by tablet excipients? Justify their role with suitable examples.
- Explain the production and filling of hard gelatin capsules.
- Discuss the formulation and evaluation of suspension.

1 M-92170

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- Write a comment on containers used for parenterals.
- Explain the various factors affecting absorption and anatomy of skin.
- Discuss various types of ointment with their special features.
- What do you mean by definition and concept of controlled and novel drug delivery
- Differentiate between various types of tablets, with their all characteristics.

SECTION-C

- Discuss in detail about various characteristics and evaluation parameters for ointment.
- Write a note on quality control test for soft gelatin capsule.
- 12. What do you understand by quality control test? Give an detailed overview for quality control test for coated tablets

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Total No. of Pages: 02

MEDICINAL CHEMISTRY Pharm.D (Sem.-3)

Subject Code: PD305T-19 M.Code: 92169

Date of Examination: 18-12-2023

Max. Marks: 70

Time: 3 Hrs.

- INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

Write Briefly:

- Name one class of antihypertensive agents.
- What is the function of antithyroid agents?
- Explain the purpose of loop diuretics in medicine.
- d) Differentiate between steroidal hormones and adrenocorticoids in drug classification.
- e) Differentiate between coagulants and anticoagulants.
- 5 Write Hansch equation for QSAR,
- g) Give classification of first class of cephalosporin.

SECTION-B

- 2. Write a note of QSAR and its physicochemical parameters.
- Give a brief account on glucosidase inhibitors as anti-diabetic agents and synthesis of
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- Draw structures of any four anti-coagulants. Give structures of warfarin.
- Describe structures of thiazide class of diuretics. Give synthesis of chlorthiazide.
- 6. Give the structure of important thyroid hormones. Comment on physiological importance
- Give a brief account on glucosidase inhibitors as anti-diabetic agents and synthesis of
- Name conventional methods of drug design. Describe any one.
- Describe typical structural feature of glucocorticoids and mineralocorticoids, citing two

SECTION-C

- Define sulphonamides. Give classification, mechanism, SAR and synthesis of any one
- Write a detailed note on HIV protease inhibitors by giving suitable examples.
- What are aminoglycosides antibiotics? Write mode of action, structure, uses of

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Total No. of Pages: 02

Total No. of Questions: 12

Pharm.D. (Sem.-1) PHARMACEUTICAL ORGANIC CHEMISTRY Subject Code: PD104T-19

Subject Code: PD104T-19 M.Code: 78162

Date of Examination: 15-12-2023

Max. Marks: 70

Time: 3 Hrs.

INSTRUCTIONS TO CANDIDATES:

- 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.
- SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- Write Briefly:
-) Give the name of CH₃CH₂CH(Cl₂)CH₂CH₃.
- b) What are optical isomers? Give their importance.
- c) What is solubility of compounds?
- d) Discuss about free radical substitution reaction of alkenes.
- e) Give the electrophilic addition reaction of alkenes.
- f) Describe Markovnikov's rule.
- g) Define acidity of carboxylic acid.

SECTION-B

- Discuss Cannizaro reaction.
- Discuss the halogenation of alkanes with mechanism.

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Discuss classification and qualitative tests for carbohydrates.

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- 6. Explain basicity of amines

Discuss electrophilic addition reaction of alkenes.

- Describe dehydrohalogenation reaction giving details of reaction kinetics.
- Discuss the classification and qualitative tests of amino acids.
- Explain the acidity of phenols with the description of Kolbe's synthesis and Schotten Bauman reaction.

SECTION-C

- Describe comparison of alkyl nucleophilic substitution with nucleophilic acyl substitution reactions,
- Explain orientation of monosubstituted benzene compounds towards electrophilic substitution reactions
- 12. Give the methods of preparation of alkyl halides. Discuss the kinetics, reactivity of SN_2 reactions.

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Total No. of Questions: 12

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

Date of Examination: 11-12-2023

Time: 3 Hrs.

Max. Marks: 70

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

SECTION-A

- Write briefly:
- What are tablet dosage forms?
- b) Define posology.
- c) When was the first edition of IP published?
- d) What is proof spirit?
- What is a cutectic powder?
- Define suspensions and emulsions.
- 8 What are sutures and ligatures?

SECTION-B

Discuss various parts of a prescription.

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What are various methods for calculation of children and infant doses?

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- Write a short note on history of pharmacy profession in India.
- 5. Explain the basic concepts of tooth powders, effervescent powders and granules.
- 6. Discuss organoleptic additives and stabilizers with examples
- Write a short note on stability problems in emulsions.
- Elaborate various evaluation parameters for suppositories.
- Classify various incompatibilities with examples.

SECTION-C

- 10. Discuss in detail about development of Indian Pharmacopoeta. Give salient features of IP
- Write a detailed note on classification and formulation of emulsions
- 12. What are galenicals? Explain the process of infusion and maceration in detail.

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Total No. of Pages: 02

Pharm.D (Sem.-1)
HUMAN ANATOMY & PHYSIOLOGY Subject Code: PD101T-19

Date of Examination: 08-12-2023 M.Code: 78159

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.

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

SECTION-A

- Write briefly:
- a) Define TMJ.
- b) Define keratinization.
- 0 What is the function of lacrimal apparatus?
- What is Deep Vein Thrombosis?
- Define Splenomegaly.
- f) Define Hypoxia.
- g) Give different contraceptive devices to prevent pregnancy.

SECTION-B

- Define cell. Draw structure of cell. Give its components and their functions.
- Define respiration. Describe the events that cause inhalation and exhalation.
- Explain different phases of female reproductive cycle.

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- Describe how renal tubule and collecting ducts produce dilute urine?
- 6 Describe in brief the physiology of muscle contraction.
- Explain the hormonal regulation of blood pressure
- Explain functions and components of blood.
- Draw a neat & clean & well labeled diagram of eye.

SECTION-C

- 10. How are cranial nerves named and numbered? Give types, location and function of each
- Draw a well labeled structure of heart and explain the function of each part.
- Explain the different phases of digestion and major hormones that regulate digestion.

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Total No. of Questions: 12

Pharma. D. (Sem.-1) PHARMACEUTICAL INORGANIC CHEMISTRY

Subject Code: PD105T-19 M.Code: 78163

Date of Examination: 18-12-2023

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

SECTION-A

- Write briefly:
- a) Define accuracy and precision.
- b) Define a buffer solution.
- c) What are complexometric titrations?
- d) What is co-precipitation?
- Write the principle for limit test for sulphates.
- What are the physiological roles of iron?
- Define expectorants with examples.

SECTION-B

- What are errors? Classify various errors with examples.
- Write a note on primary and secondary standards with examples.

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- 4 Discuss the basic theories of indicators.
- S What are non-aqueous titrations? Give details of non-aqueous titrations of weakly basic
- Give principle and pharmaceutical applications of gravimetric analysis

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- Elaborate the steps involved in limit test for chloride.
- Define cathartics. Discuss magnesium sulphate and magnesium hydroxide in detail.
- 9. Write a note on antidotes.

SECTION-C

- What are antacids? Explain any four antacids in detail.
- Write a detailed note on dentifrices and anti-caries agents.
- What are electrolytes? Explain various electrolytes used for replacement therapy.

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Roll No. Total No. of Questions: 12

Total No. of Pages: 02

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

Date of Examination: 13-12-2023

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.
- SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- Write briefly:
- What are energy rich compounds?
- 6) Define isoenzymes.
- Define gluconeogenesis.
- d) Give examples of electron transport chain inhibitors.
- 0 What is hyperbilirubinemia and its causes?
- Give any two kidney function tests.
- 30 How is sodium determined in body fluids?

SECTION-B

- Discuss the transport process across the cell membrane.
- What are enzymes? Classify them according to IUB system.
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- Write a short note on HMP shunt.
- Explain the process of transamination.
- 6. Discuss the process of beta-oxidation of saturated fatty acids.
- Write a short note on urea cycle.
- Elaborate various liver function tests.
- 9. Explain the basic principles of Enzyme Linked Immuno Sorbent Assay (ELISA).

SECTION-C

- 10. What is Glycolysis? Discuss various steps involved in glycolysis along with the energetics and significance.
- Write a detailed note on protein synthesis and inhibition of protein synthesis.
- 12. Explain the process of electron transport chain along with its mechanism in energy capture, regulation and inhibition.

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Total No. of Pages: 02

COMMUNITY PHARMACY Pharm. D (Sem.-2)

Subject Code: PD205T-19 M.Code: 80146

Date of Examination: 02-12-2023

Time: 3 Hrs.

- SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks, SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- Comment on OTC medication.
- Define patient counseling.
- Counseling tips for antacids.
- Define prescription.
- 6.

SECTION-B

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- 10. Explain Patient information leaflet.
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Max. Marks: 70

- INSTRUCTIONS TO CANDIDATES:

 1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.

Write briefly:

- Define community Pharmacist.

- Comment on Drug interaction.
- What is Lead time and Reorder level?

- Write about Role of community Pharmacist.
- Explain various barriers of patient counseling.

- How computers and softwares are useful in community pharmacy?
- Explain about EOQ analysis with example.
- Give examples of drug-other components its interactions.
- Define pharmaceutical care. Write in detail about the principles of pharmaceutical care.
- 15. Define balanced diet. Write a note on vitamins deficiency disorders and its prevention.

SECTION-C

- 16. Explain role of community pharmacist in family planning. Write about different methods
- 17. What do you know about ABC and VED analysis?
- 18. Define communicable diseases. Discuss the role of community pharmacist in preventing

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Roll No. of Questions: 12

Pharm.D (Sem.-2)
PHARMACOTHERAPEUTICS-I
Subject Code: PD206T-19

M.Code: 80147
Date of Examination: 30-11-2023

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.
- SECTION-B contains EIGHT questions. Attempt any SIX questions. Each question will carry FIVE marks.
- SECTION-C contains THREE questions. Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- l. Answer briefly:
-) Define hyperlipidemias.
- b) What is asthma and what are some common asthma triggers?
- c) Define diabetes and differentiate between type 1 and type 2 diabetes.
- d) Briefly explain why polypharmacy can be a concern in geriatric patients?
- e) Name one common treatment for viral conjunctivitis.
- Name one class of medications used to treat Chronic Obstructive Airways Disease (COPD).
- g) Describe the key function of the thyroid hormones in the body.

SECTION-B

- What is angina pectoris and what are the typical symptoms experienced by a person with angina?
- What are dietary changes that can help reduce high cholesterol levels?

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- Explain the primary difference between Chronic Obstructive Airways Disease (COPD) and Asthma.
- Explain the role of the thyroid gland in the body. What is hypothyroidism and how is it typically managed with medication?

5.

- . Define glaucoma and describe its impact on vision
- Explain the role of pharmacists in promoting rational drug use.
- 8. Describe the role of cholesterol in cardiovascular health. What are dietary changes that can help reduce high cholesterol levels?
- Discuss drug-induced pulmonary diseases.

SECTION-C

- Discuss the pharmacological management of osteoporosis, including the mechanisms of action of drugs used and their potential side effects.
- 11. Explain the pathophysiology of hypertension, its risk factors and the pharmacological approaches to its management. Discuss the potential side effects and monitoring requirements for antihypertensive medications.
- 12. Compare and contrast the pharmacological management of diabetes mellitus and thyroid diseases. Discuss the mechanisms of action of medications used, potential side effects and considerations for patient monitoring.

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Total No. of Questions: 18 Roll No.

Total No. of Pages: 02

PHARMACOLOGY-I Pharm.D (Sem.-2)

Date of Examination: 28-11-2023

Time: 3 Hrs.

Subject Code: PD 204T-19 M.Code: : 80145

Max. Marks: 70

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

SECTION-A

Write briefly:

- Define additive effects with examples.
- What are the miotics?
- Classify CNS stimulants and cognition enhancers.
- Define nasal decongestants. Give any two examples.
- What are the antitussive agents?
- Name any two sex hormones and their uses.
- Define autocoids. Give any two examples.

SECTION-B

- Discuss various types of toxicity in detail.
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- Classify adrenergic blocking agent and pharmacological action of propanolol.
- 10. Define local anaesthetics with examples. Write the mechanism of action of lignocaine.
- 11. Write the mechanism of action and pharmacology of phenytoin
- 12. Give an account on nasal decongestants.
- Explain the pharmacology of levothyroxine.

13.

- Classify anti-arrhythmic drugs. Explain membrane stabilizing agents.
- Write about 5-hydroxytryptamines.

SECTION-C

- Discusses in detail various role of drug administrations.
- Define hypertension and discuss in detail about pharmacotherapy of hypertension.
- Classify sedative and hypnotics and write mechanism of barbiturates.

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Roll No. Of Questions: 12

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: 23-11-2023

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.
- SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
- 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 crude drug.
- b) Add a note on Ergastic Substances.
- c) Write a note on Cellulose.
- d) Write the sources, active constituents and uses of Olive oil.
- e) What are adulterants?
- Define cell wall constituents.
-) What are fibers?

SECTION-B

- Name few cell inclusions. Write the various types of calcium oxalate crystals occur in plant cell.
- What are the advantages and disadvantages of cultivation?
- Write the morphological and chemical classification of crude drugs with examples.

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- 5. Write brief note on Plant growth regulators.
- Give the identification test for agar and tragacanth.

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- Brief note on Absorbent cotton.
- 8. Define and classify volatile oils with examples
- Explain microscopic characteristics, cultivation, and collection of Isapgol.

9.

SECTION-C

- 10. How will you evaluate the adulteration by macroscopically, microscopically and physically?
- 11. Write the factors affecting the cultivation of crude drugs.
- 12. Define lipids. Write a note on chemistry, method of analysis of lipids.

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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Total No. of Pages: 02

Subject Code: PD201T-19 Pharm.D. (Sem.-2)
PATHOPHYSIOLOGY

M.Code: 80142

Date of Examination: 17-11-2023

Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

Time: 3 Hrs.

- SECTIONAL centain SEVEN questions. Amongs any FONE questions. Each question will carry TWO marks each.
- SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions, Each question will carry FIVE marks.
- SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

Explain briefly:

- Hepatitis.
- Define Hypersenstivity.
- What is lipoproteinaemia?
- Define chemotaxis.
- Describe Syphilis.
- What is Cirrhosis?
- Differentiate between benign and malignant tumors.

- Describe the ctiology of cell injury.
- Explain MHC proteins. Give their significance.

- 10. Discuss the biological effects of radiation.
- Enumerate on protective measures to prevent biological effects of radiation.
- What is Angina Pectoris? Explain the different types of Angina Pectoris.

12.

- 13. Discuss the cause, mode of spread and pathogenesis of Tuberculosis.
- 14. Write a note on histological diagnosis of malignancy.
- Elaborate pathogenesis of Starvation.

SECTION-C

- 16. Explain about ctiology, pathogenesis and complications of type II Diabetes Mellitus.
- Classify Shock and write about its mechanisms and management.
- Define and classify auto immune disease and explain in detail about pathophysiology of any two auto immune diseases.

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Roll No.

Total No. of Pages: 02

Total No. of Questions: 12

PHARMACEUTICAL MICROBIOLOGY Pharm.D (Sem.-2)

Subject Code: PD-202T-19 M.Code: 80143

Date of Examination: 21-11-2023

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

SECTION-A

- Answer briefly:
- Name two killed vaccines.
- What is Schick's test?
- Difference between vaccine and sera.
- Name the media used for sterility testing of ophthalmic.
- Define immunology with examples.
- What are antigen-antibody reactions?
- (30) Enlist factors affecting disinfectants.

SECTION - B

- 2. Diagrammatically explain the growth curve of bacteria.
- Write a note on hepatitis.

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- 5 Diagnostic test for malaria with its application.

Explain the method of isolation of bacteria.

- 6. Explain microbial assay of antibiotics.
- Write a method for gram staining for the identification of microbes.
- Write a method for counting bacteria.
- Write the advantages and disadvantages of various methods of sterilization.

SECTION-C

- 10. Illustrate various biochemical tests for the identification of bacteria with examples.
- Classify the mechanical and gaseous methods of sterilisation.
- 12. Discuss in detail the evaluation of disinfectants by the phenol coefficient method.

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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Total No. of Questions: 13

PHARMACOTHERAPEUTICS-III Pharma. D (Sem.-4)

Subject Code: PD401T-19 M.Code: 93760

Date of Examination: 29-11-2023

Time: 3 Hrs.

Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- 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.
- SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- Write Briefly:
- What is affective disorder?
- 5 Enlist various anti-psychotic drugs.
- c) Discuss pain pathway.
- **d**) What are various types of neuralgia?
- Describe management of sleep disorders.
- Enlist various drugs induced blood disorder.
- (3) Describe evidence based medicine.

SECTION-B

Write a short note on pharmacotherapy of obsessive compulsive disorder.

2

- Describe various drugs used in Crohn's disease management.
- Discuss in detail about pharmacotherapy of jaundice.

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Discuss clinical management of Alzheimer's disease.

6.

- Explain pharmacotherapy for different types of anemia.
- Write a note on management of different types of viral hepatitis.
- What information about the drug should be provided to the patient?
- Discuss in detail about drug induced liver disorders.

SECTION-C

- Describe the etiology and clinical manifestations of venous thrombo embolism.
- Explain pathophysiology, diagnosis and pharmacotherapy of Parkinson's disease.
- 12. Describe pathophysiology, various types and pharmacotherapy of epilepsy.

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Total No. of Pages: 02

Subject Code: PD-403T-19 CLINICAL PHARMACY D. Pharma (Sem.-4)

Date of Examination: 22-11-2023 M.Code: 78149

Time: 3 Hrs.

Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

- List out the barriers hindering the clinical pharmacy development in India.
- Define Post Marketing Surveillance.
- Write the full form of:
- a) GERD

b) MCHC

- 0 SGOT
- 9 COPD
- Define pharmaceutical care. Explain the role of clinical pharmacist in pharmaceutical
- 5 Give 2 examples of LASA drugs
- 6. Differentiate ADR and ADE.
- List out the skills required for drug information specialists.

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- Explain the components of patient medication chart?
- 9. Write a short note on SOAP format and FORM format.
- 10. Briefly differentiate the roles of Clinical, Community and Hospital Pharmacist.
- Ξ Explain about Patient information Leaflets.
- 12. Explain the different hematological tests useful in classifying types of anemias along with the normal values.
- 13. Define pharmaceutical care. Explain the role of clinical pharmacist in pharmaceutical
- 14. Define the terms:
- a) Randomization
- b) Blinding
- c) Biomedical literature
- d) EBM
- e) Cohort study.
- 15. Explain in detail about the organization and information resources of poison information

SECTION-C

- 16. Define and classify Medication errors. What are the factors influencing the medication errors?
- 17. Write in brief on the scope and aims of pharmacovigilance. Discuss on voluntary ADR reporting system in various countries.
- 18. Define Communication? Mention the various factors affecting the communication? What are the barriers to handle this?

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Total No. of Pages: 02

BIOPHARMACEUTICS & PHARMACOKINETICS Subject Code: PD405T-19 Pharm.D. (Sem.-4)

M.Code: 93764

Time: 3 Hrs.

Date of Examination: 22-11-2023

Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of SEVEN questions carrying TWO marks each. 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 15 marks each and students have to attempt any TWO questions.

SECTION-A

- Answer briefly (Any Five):
- Define absorption.
- In compartment modeling, what does the term open mean?
- Define drug distribution.
- Enlist different pharmacokinetic parameters.
- Define biotransformation.
- What is Km and Vmax?
- Define bio-availability and bio-equivalence.

SECTION-B

- Explain about the subject selection criterion in bioavailability studies.
- What are the various types of physiological models?

3 2.

Explain Michaelis-Menten equation in determining non-linearity.

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- Enumerate about drug distribution to foctus through placental barrier.
- Highlight application of pharmacokinetic model.

6.

- Write a note on mamillary model.
- Give an account on two compartment open model intravenous infusion.
- Elaborate repititive intravenous injections (one compartment open model).

SECTION-C

- 10. What is a compartment? Classify the compartment models. Give the schematic
- Discuss in detail one-compartment open model for a drug administered as IV infusion. Give the schematic representation, graphs and equations for the same.
- Describe the factors affecting distribution.

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Total No. of Questions: 12

Pharm.D. (Post Baccalaureate) (Sem.-4) HOSPITAL PHARMACY Subject Code: PD402T19

M.Code: 78148

Date of Examination: 20-11-2023

Max. Marks: 70

- INSTRUCTIONS TO CANDIDATES: ${\sf SECTION}$ – A contains of SEVEN questions carrying TWO marks each and attempt any 05 questions.
- SECTION-B contains EIGHT questions carrying 05 marks each and attempt any SIX questions.

 SECTION-C contains THREE questions carrying FIFTEEN marks each and attempt any TWO questions.

SECTION-A

- Answer briefly:
- What is a tertiary care hospital?
- 5) Define hospital budget
- 0 Write a note on importance of news letter.
- List out the pharmacist role in infection control.
- 0 Define clean room.
- What is pyrogen test?
- g) Give the formula for EOQ.

SECTION-B

- What are the primary and secondary care hospitals?
- Describe the scope and responsibilities of a hospital pharmacist.
- Explain about the revenue accounts in the hospital.
- Explain role of Institution ethics committee in the hospital.

- Explain the composition and functions of infection control committee.
- Write note on VED and EOQ in inventory control.
- What are the requirements for the manufacture of large volume parentrals in a hospital?
- List out the objective of CPD programme

SECTION-C

- 10. What are the techniques to protect against radiations during the manufacture of radio
- = Explain the guidelines for the exchange of info between pharmacist and medical research
- Explain role of pharmacy and therapeutic committee in drug product defect reporting

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