

Chittagong Veterinary and Animal Sciences University

Department of Physiology, Biochemistry & Pharmacology

MS (Pharmacology)

Final Examination-2021

July-December Semester

Sub: Pharmacy (PHM 602)

Total Marks: 40 Time: 2 hours

Answer the following questions any eight. Where question No. 5 is compulsory.

8 x 5 = 40

1. Define pharmacy and classify pharmacy? "Drug Discovery is a historical advancement of medical science"-Describe briefly?
2. How will you start a modern veterinary pharmaceutical industry in your city? What are the pre-requisite for it.
3. What are the regulatory body to regulate all the regulatory matters related to drug, food and cosmetics in BD. Mention the Code of ethics in pharmacy profession.
4. What is pharmacopoea? Classify pharmacopoea. How drug license, registration of drug or manufacturing license should be acquired?
5. Differentiate followings :
 - a. Drug, food, medicine, cosmetics & vaccine.
 - b. Forensic and governmental pharmacy.
 - c. Drug compounding and drug dispensing.
 - d. Drug standardization and packaging.
 - e. Mobile clinics & Ambulatory clinics.
6. What are the residual effects of drug in case of poultry drug use for human consumption? Write down the process to evaluate residual effects of drug in case of poultry.
7. **Write down the various parts of the following instrument with their functions: (any five)**
 - a. Distillation plant; b. Gelatin capsule filling machine; c. Rotary die machine; d. HPLC;
 - e. Tablet coating machine; f. Sachet filling machine.
8. How will you formulate, development and prepare a drug? And how you made a literature for these drugs?
9. **Write Short note : (any four)**
 - (a) Prescription ; (b) TT (Tablet triturates); (c) ISO certification; (d) AHCAB. (e) OIE & GMP;
10. Write down common techniques for the preparation of drugs. What are the responsible of explain the following terms Analyte, Chromatography pharmacist. Gas-liquid chromatography.

Chattogram Veterinary and Animal Sciences University (CVASU)
Department of Physiology, Biochemistry and Pharmacology (DPBP)
MS in Pharmacology July December 2021 Semester Final Examination
Subject: **Toxicology of Pesticides**
Sub code-TOP-602
Total Marks: 40

Answer any **four** questions from the below list from where **question no 1** is compulsory. Figure in the right margin indicate full marks.

1. Briefly describe the impact of pesticide toxicity on animal health and ecosystem. Mention the fate of pesticides in the biosphere describing the flow chart. 10
2. Describe the effect of pesticide in food chain along with their transfer and bio-accumulation into human food chain through meat, eggs, milk. 10
3. Describe the methodology utilised for measuring toxicological effects 10
4. Classify herbicides toxicity with their toxicokinetic and toxicodynamic properties 10
5. Describe the factors that increase the rodenticide toxicities. Briefly describe the effect of pesticides and herbicides on honey bees and aquatic animals. 10
6. Classify fungicides, chemistry, properties, mechanism of action, clinical signs, diagnosis and management of pesticide exposure in a livestock farming system. 10

Chattogram Veterinary and Animal Sciences University

Department of Physiology, Biochemistry & Pharmacology

MS (Pharmacology) Final Examination

July-December Semester 2021

Sub: Endocrinology and Nutritional Pharmacology (ENP-602)

Total Marks: 40

Time: 2 hours

Answer any (05) five of the following questions (Each questions have equal mark)

1.
 - a. Describe thyroid hormones with their functions. List the anti-thyroid drugs with their adverse effects.
 - b. Elaborate pharmacological properties of levonorgestrel. Justify the use of clomiphene in infertility following prolonged use of hormonal contraceptives.
2.
 - a. A cat of 10 years old with blood glucose level high come to you. What is your diagnoses and what drug it indicated for it. Justify your answer and explain.
 - b. What are the oral anti-diabetic agents? Name the insulin secretagogues with mood of action and adverse effects.
3.
 - a. Define endocrine pharmacology & Classify hormones on the basis of chemical structure. Name the hypothalamic hormones in tabular form with their indication, mode of action, dose, contraindication, side effect, trade name in case of cow.
 - b. Define autacoids & differentiate autacoids with hormones. Write the drugs used in the treatment and prophylaxis of migraine headaches. Write the name of H₁/H₂ antihistamines with their action in the body.
4.
 - a. What do you mean by Herbal medicine? Write 5 herb with their source, mode of action, use, indication, dose in case of poultry. How yucca max is used in fish disease in Aqua Practice.
 - b. What do you mean by fluid therapy & types? What are the main goal of fluid therapy in Vet practice? How dehydration measure a case of horse. What do you mean by replacement therapy, give example.
5.
 - a. What do you mean by NSAID & SAID? Enlist them. Write down the detail. (10 points) about *Aspirin*, *Paracetamol* & *Dexamethasone* in tabular form. Compare the anti-inflammatory effect of Aspirin with that of prednisolone.
 - b. What do you mean by radiation therapy. Write various types of radiation therapy. What are antiviral drug used in Vet practice. Classify them on the basis of mode action. Define interferon & importance to prevent viral infection.
6. **Short Note:**
 - a) Gas remover: b) Yucca max: c) Antiseptic & disinfectant: d) Gray baby syndrome

Chattogram Veterinary and Animal Sciences University
Department of Physiology, Biochemistry and Pharmacology
MS in Pharmacology Final Examination 2021

Semester: July-December

Course Title: Chemotherapy of Parasitic Disease (Theory)

Course Code: CPD-602

Total marks: 40, Time: 2 hours

(Figures in the right indicate full marks. Answer any FOUR (4) questions).

- 1 a. Write down the mechanism of action of benzimidazole. 3
- b. Summarize the activities of the various members of the benzimidazole anthelmintics. 4
- c. Briefly describe the pharmacokinetics of benzimidazole. 3

- 2 a. Explain about ethno veterinary medicine in veterinary practice. 3
- b. What is your idea about emerging poultry anthelmintic resistance and plant-anthelmintic? 4
- c. What are the common medicinal plants used for poultry anthelmintic? 3

- 3 a. Classify antinematodal drugs. 4
- b. How does antipsychotic drug sertraline work against certain nematodes? 4
- c. Briefly describe the pharmacokinetics of sertraline. 2

- 4 a. Differentiate between avermectin and ivermectin. 3
- b. List down various doses of ivermectin in different species with administration route. 4
- c. What are the controversy found about the use of antiparasiticide ivermectin against viral infection? 3

- 5 a. How do antiprotozoal agents work? 3
- b. List down the drug of choice against bovine babesiosis and anaplasmosis. 3
- c. What are the side effects of antiprotozoal drugs? 2
- d. List down the line of treatment of malassezia in dogs. 2

Chittagong Veterinary and Animal Sciences University

Department of Physiology, Biochemistry & Pharmacology

MS (Pharmacology) Final Examination

July-December Semester 2021

Sub: Systematic ^{Pharmacology} Physiology (SPH-602)

Total Marks: 40

Time: 2 hours

Answer the following questions (Any four):

1. a. Differentiate between general pharmacology systematic pharmacology
b. Relate between clinical pharmacology with above.
c. How pharmaceutical chemistry contribute in clinical pharmacology describe it.
2. a. Differentiate between mucolytic & expectorant.
b. How antitussive act as antiasthmatic drug.
c. Made a prescription of Asthma Patent (Cat) with proper advice.
3. a. What do you mean by PDA of Dog. How Aspirin act in heart disease.
b. How you handle a anuria patient. Write the process of kidney dialysis of a dog.
c. Enumerate the function of angiotensin. How do you antagonize its action.
4. a. What are the underlying causes of irrational prescribing behavior? Criticize irrational use of antimicrobials. Suggest important measures of improving behavior.
b. Justify combination of salbutamol & theophylline in bronchial asthma.
5. Short Note:
a) Antiviral drugs; b) Immunomodulators; c) Anti-TB drugs; d) Narcotic Analgesics; e) Atropine Sulphate

Chattogram Veterinary and Animal Sciences University

Department of Agricultural Economics & Social Sciences

MS in Agricultural Economics

Jul to Dec Semester Final Exam 2021

Course Title: Agricultural Market Structure Analysis

Course Code: AMS-602

Total Marks: 40, Time: 2.00 Hours

Instructions:

- *Answers should be **specific and brief**.*
- *Split answers are **highly discouraged**.*
- *Please answer any 4 (four) of the below questions.*

- 1) A) Differentiate Agribusiness Marketing and Agricultural Marketing. 4
B) Distinguish between Agricultural Products and Manufactured Products. 4
C) Describe the different components of Market Conduct. 2

- 2) A) Show the stages of agricultural marketing for a typical agricultural commodity. 3
B) Highlight the significance of market information for an efficient agricultural market system. 4
C) Mention three methods for market system evaluation. 3

- 3) A) Draw a poultry market system. 5
B) Suppose you are supervising a Poultry Farm Development project. Your team member is preparing to provide training to young farmers on how to start a commercial poultry farm. In training, he should cover investment amounts and issues. Identify and explain the fundamental cost issues you expect your team member to share with the participants. 5

- 4) A) Explain how the Vertical Integration of poultry industry in the US worked. 3
B) Illustrate the popular marketing channels in raw milk marketing in Bangladesh. 4
C) As a farm manager, explain how you standardize and grade raw milk. 3

- 5) A) Identify the elements of Market Structure. Provide examples of the identified elements. 3
B) Suppose in the processed food industry, the company market shares are as below:
Company A: 25%, Company B: 25%, Company C: 25%, Company D: 20%, Other companies: 5%. What is the concentration ratio for the top four companies? Interpret your findings. 4
C) Mention the assumptions in a Oligopoly Market. Explain with example. 3