

Chattogram Veterinary and Animal Sciences University  
Department of Physiology, Biochemistry and Pharmacology  
**MS in Pharmacology Final Examination 2023**

**Semester: July-December**

Course Title: Toxicology of Drugs and Chemical Residues (Theory)

Course Code: TCD-602

Total marks: 40, Time: 2 hours

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

- 1 a. What is drug overdose? Write down the impact of drugs overdose in veterinary practice along with public health significance. 5
- b. What measures should be taken in case of controlling hazard impact of drugs? 5
- 2 a. What is margin of safety of drugs? What steps should be taken during the monitoring and detection of antibiotic residues? 5
- b. List in a tabular format about drug toxicity, side effects and contraindication of cephalosporin, cotrimazole, ciprofloxacin and azithromycin. 5
- 3 a. Do you think occupational hazards in veterinary practice is neglected issue? What are the deleterious effect of physical, psychological, and chemical hazards? 5
- b. Define bio-monitoring. Write down the process of bio-monitoring. 5
- 4 a. Describe the pesticide pollution and enlist the different sorts of pesticides that have impact on human health. 5
- b. How does Chattogram get free from toxic DDT stockpile? 5
- 5 a. What are the risk associated with the use of veterinary drugs and chemicals in aquaculture? 5
- b. Write down the name of drugs that cause hypersensitivity in body with example. 5

Chattogram Veterinary and Animal Sciences University  
Faculty of Veterinary Medicine  
Department of Physiology, Biochemistry and Pharmacology  
**MS in (Pharmacology)** July December semester final-2023  
Course title: Endocrine and Nutritional Pharmacology  
Course Code: ENP-602  
Total Marks: 40

Figure in the right margin indicate full marks. Please answer any 4 (Four) questions from this list

1. Give a brief overview about the Pharmacological and Therapeutic uses, side effects and contraindications of hormones in veterinary practices. 10
  
2. a) Describe the Prostaglandin biosynthesis pathways. 3+4+3  
b) Enlist the name about Prostaglandin-containing preparation for veterinary purpose.  
c) What are the different pharmacologic agents used during difficult birthing for large animals.
  
3. a) Enumerate the effects of Vitamin A and Vitamin D in poultry. 2+3+3+2  
b) Describe the Mechanism of Vitamin A and Vitamin D synthesis in biological system.  
c) In addition, please describe the Role of Vitamin D in Small Animal Bone Metabolism.  
d) Which body system is responsible for the regulation and synthesis of vitamin D?
4. a) What minerals are deficient in farm animals? 5+5  
b) What are the most common major minerals animal rations lack?
  
5. a) Describe the Application of Exogenous GnRH in Food Animal Production. 3+3+4  
b) Enlist the Available hormones use for livestock in Bangladesh.  
c) Describe in a sketch about the Target organs and their final secretory products of pituitary hormones
  
6. a) Describe Common nutrition-related problems of poultry. 4+3+3  
b) Describe the deficiency diseases of water-soluble vitamins in poultry  
c) How a Vet treat thiamine deficiency in chickens.

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**MS in Pharmacology**

**Semester: July-December 2022**

**Subject: Systemic Pharmacology (Theory)**

**Course Code: SPH-602 (T)**

**Full Marks: 40**

**Answer any four questions. Marks are mentioned on the right side of each question.**

1. a. Enlist the disadvantages of using systemic antacids in an animal. 2  
b. Emetics are contraindicated in horses, rats, and cattle. Shortly describe the causes. 4  
c. Sketch the mechanism of action of Bulk and Osmotic purgatives. 4
  
2. a. Enlist the indications and contraindications of emetics and purgatives. 2  
b. Differentiate between reflex and direct sialogogues with a special focus on the mechanism of actions. 2  
c. Sketch the mechanism of action of Codeine sulfate. 3  
d. Shortly describe the pharmacokinetics of Propofol. In which animal it is contraindicated and why? 3
  
3. a. Enlist five anti-anemic agents. 1  
b. Differentiate between Heart Tonic and Heart Stimulant. 3  
c. Sketch the mechanism of action of Fluticasone. 3  
d. Differentiate between Ketamine and Diazepam in a tabular manner. 3
  
4. a. Enlist five non-systemic antacids. 1  
b. Sketch the mechanism of action of Salbutamol. 3  
c. Differentiate between loop diuretics and thiazide diuretics. 3  
d. Describe the mechanism of actions of Aminophylline as respiratory stimulants, nervous stimulants, and diuretics. 3
  
5. a. Differentiate between the pharmacokinetics of Gabapentin and Pregabalin. 2  
b. Describe the pharmacology of Bromhexine. 4  
c. Sketch the mechanism of action of Domperidone and Metoclopramide. 4

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**MS in Pharmacology Final Examination 2023**

**Semester: July - December**

Course Title: Toxicology of Pesticides (Theory)

Course Code: TOP-602

Total marks: 40, Time: 2 hours

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

1. a. Classify pesticides. Write down the mode of action, diagnosis and treatment of malathion poisoning. 5  
b. Write down the common public health hazard caused by pesticides. 5
2. a. Briefly discuss the effects of pesticides and herbicides on honey bees and fish. 5  
b. Write down the functions and mechanism of ideal fumigants in poultry. 5
3. a. Define toxicity. Write down the impact of pesticides toxicity on ecosystem. 5  
b. How will you diagnose and treat acute arsenic poisoning? 5
4. a. Classify herbicides toxicity with their toxicokinetic and toxicodynamic properties 5  
b. Briefly discuss the diagnosis and treatment of ANTU poisoning. 5
5. a. Differentiate organo-phosphorus poisoning from organo-carbamate poisoning? 5  
b. Discuss the protocol of sample collection while any outbreak happen in dairy farm by toxic agent. 5

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**MS in Pharmacology, July-December Semester, Final Examination-2023**  
**Course Title: Chemotherapy of Parasitic Disease**  
**Course Code: CPD-602**  
**Full marks: 40; Time: 2 hours**

**Figures in the right margin indicate full marks. Answer any four (4) from the following questions.**

1. a. Briefly describe some natural compounds that are use against cestode. 5  
b. Write down the pharmacology of niclosamide drugs in veterinary practices. 5
2. a. Mention the use, mode of action, indication, contraindication and dosage of Hexachlorophene and Praziquantel drugs. 5  
b. Enlist some drugs that are use for treatment of Fasciolosis and Paramphistomiasis. 5
3. a. Write down the chemistry, pharmacological action, mode of action, dose and contraindication of the following drugs: 5  
i) Nitroxynil      ii) Oxyclozanide + Tetramisole  
b. "Levamisole drugs act as immune modulator in host"- Justify this statement. 5
4. a. How will you perform shuttle and rotation programs for control of Coccidiosis in a poultry farm? 5  
b. Write down the mode of action, indication and dosage of Piperazine citrate and Benzimidazole drugs. 5
5. a. Enlist some important protozoal diseases in livestock and poultry and mention their specific drugs of choice. 5  
b. Write down the mode of action, therapeutic use and dosage of imidocarb and ivermectin drugs. 5

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**MS in (Pharmacology) July December semester final-2023**  
Course title: Pharmacy  
Course Code: PHM-602  
Total Marks: 40

Figure in the right margin indicate full marks. Please answer 4 (Four) questions from this list

1. Describe the Branches of Pharmacy, its Studies and Applications. 10
  
2. a) Define community Pharmacy. 2+4+4  
b) How you will be inspiring community pharmacy practice in Bangladesh.  
c) Describe the main activities of community pharmacist and duties of community pharmacist.
  
3. a) What is the history of pharmacy in Bangladesh? 5+5  
b) How many pharmaceuticals are there in Bangladesh? Please enlist their name.
4. a) Define Trade mark and Trade mark law; 2+6+2  
b) How do you describe the marketing of Veterinary drugs, Code of ethics in Pharmaceutical Marketing (CPMP),  
c) What are the pricing policies for drugs in Bangladesh?
  
5. a) Analysing the metabolic fate of oral administration drugs. 4+3+3  
b) Describe the Effect of route of administration and distribution on drug action.  
c) Mention the steps in Syrup preparation, processing, manufacturing, packaging, labeling and quality control
  
6. a) Describe the Organization and association related to Pharmacy practice; 4+6  
b) Describe the scope and responsibilities of Director General for Drug Administration (DGDA); Bangladesh Pharmaceutical Society (BPS) and Pharmacy Graduate Association (PGA).