

**Chittagong Veterinary and Animal Sciences University**

**July to December Semester MS Final Examination, 2018**

**Department of Agricultural Economics and Social Sciences**

**MS in Agricultural Economics**

**Course Title: Research Methodology (Theory)**

**Course Title: REM-602**

**Full Marks: 40**

**Time: 2 hours**

**Answer any four (04) questions from the followings:**

1. a) Define research and research method. Briefly discuss the importance of studying research methodology. **6**  
b) What quality should be available of a good researcher? Write the limitations of livestock based field research in context of Bangladesh? **4**
2. a) Define research design. Write the characteristics of a good research design. **5**  
b) Briefly describe the steps and types of research in context of agricultural development. **5**
3. a) Define hypothesis. Why hypothesis is needed for undertaken? Write the characteristics of hypothesis. **3**  
b) What aspect to be considered while formulating null hypothesis of a research? **3**  
c) Briefly discuss the sampling tools and methods of a social research. **4**
4. a) What are the factors that determine the choice of the appropriate statistical technique? **3**  
b) Compare and write short notes on: (i) Descriptive statistics and inferential statistics; (ii) Sample statistics and Population statistics; (iii) Type-I & Type-II error; (iv) Significance level and p-value; (v) One tail and Two tail test. **4**  
c) Mention the procedures of Chi-Square test for testing goodness of fit. **3**
5. a) Define bi-variate distribution and Coefficient of determination? Discuss the Ordinary Least Squares (OLS) method of regression analysis. **7**  
b) How will you test the statistical significance of a regression model? **3**

# Chittagong Veterinary and Animal Sciences University (CVASU)

Department of Agricultural Economics & Social Sciences

MS in Agricultural Economics

Second Semester (Jul to Dec) Final Exam 2018

**Course Title: Agribusiness Marketing**

**Course Code: AGM-602**

**Total Marks: 40, Time: 2.00 Hours**

## Instructions:

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

- 1) A) Define Business and Agribusiness. 3  
B) Describe the evolution of Agribusiness. 3  
C) Interpret the Agribusiness System. 4
- 2) A) Define Marketing and Value. 3  
B) Provide examples of Need, Want and Demand. 3  
C) Mention the 4 Pillars of Marketing. 4
- 3) A) Write the scopes of Marketing. 3  
B) You are a Vet Graduate. Explain how you are going to use your Marketing knowledge. 3  
C) Illustrate the Marketing Functions. 4
- 4) A) Show the Marketing Process. 4  
B) Identify the Macro Environment elements which you will face while running a Dairy Farm in your village. 3  
C) Summarize the major decisions considered while doing production plan. 3
- 5) A) List the different sources of fund for starting an agribusiness enterprise. 3  
B) Interpret the SWOT analysis. 4  
C) Discuss the 4Ps of any agribusiness enterprise of your own choice. 3

# Chittagong Veterinary and Animal Sciences University (CVASU)

Department of Agricultural Economics & Social Sciences

MS in Agricultural Economics

Second Semester (Jul to Dec) Final Exam 2018

Course Title: Agricultural Market ~~System~~ *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 to any 4 (four) from the below questions.*

- 1) A) Discuss the components of a Market. 3  
B) Differentiate between Agricultural Products and Manufactured Products. 4  
C) Show the significance of Agricultural Marketing. 3
- 2) A) Interpret the utilities of a product created by marketing. 4  
B) Demonstrate different types of market. 3  
C) Summarize the importance of market information. 3
- 3) A) Mention the types of market information. 3  
B) Explain the criteria for good market information. 3  
C) Illustrate different marketing agencies involved in Agricultural Marketing. 4
- 4) A) Define Marketing Channel. 2  
B) Describe the popular marketing channels in agricultural marketing available in Bangladesh. 4  
C) Write the considerable factors while choosing a Marketing Channel. 4
- 5) A) Mention the Inputs into Livestock Production. 2  
B) Define Horizontal and Vertical Integration. 4  
C) Propose some ideas on how to reduce the marketing costs. 4

Department of Agricultural Economics and Social Sciences  
Chittagong Veterinary and Animal Sciences University  
MS in Agricultural Economics  
Final Examination (July-December Semester, 2018)  
Course Code: PME-602  
Course Title: Project Planning, Monitoring and Evaluation  
Full Marks: 40; Time: 2 Hours

*Answer any FOUR questions from the following:*

1. (a) Discuss project preparation. How can you select a project theme? 2+3  
(b) Classify projects on different basis 5.0
2. (a) Explain the concepts of policy, plan, programme and project. Diagrammatically show their logical relationship. 5.0  
(b) Differentiate between project monitoring and project evaluation. 5.0
3. (a) Describe in detail the evaluation process of a project. 7.0  
(b) Enlist the indicators of project evaluation. Discuss any one of them. 3.0
4. (a) What do you mean by investment criteria of a project? 5.0  
(b) How you calculate payback period of a project? Give an example. 5.0
5. Write short notes on (any two) 5x2=10
  - (a) Project Concept Paper (PCP)
  - (b) Project Logical Framework
  - (c) Social appraisal of projects

Chittagong Veterinary and Animal Sciences University  
Department of Agricultural Economics and Social Science

Degree of M.S. in Agricultural Economics

July-December Semester, Final Exam, 2018

Course title: Food Security and Poverty Studies Course code: FPS-602

Total Marks: 40

Time: 2 hours

Questions are of equal value. Answer any **04 (Four)** questions of the following: 4x10=20

1. Define risk management. Discuss the principles of risk management for food safety.
2. What is SDG? What extent of SDG achieved by Bangladesh government. How does remaining target will be achieved?
3. Is there any relationship between food insecurity and poverty? Do you support that food insecurity increases poverty? Justify your answer.
4. What does Social Protection mean? How does Social Protection Policies help to reduce poverty and vulnerability?
5. What are the causes of income inequality? How does micro-credit programme help to reduce poverty in Bangladesh.
6. Write short notes on any (**two**) of the following:
  - a) Disaster Risk Reduction (DRR) and Climate Change Adaption.
  - b) Types of Vulnerability.
  - c) Relationship between malnutrition and food insecurity.

-----GOOD LUCK-----

Chittagong Veterinary and Animal Sciences University  
Department of Agricultural Economics and Social Science  
Degree of M.S. in Agricultural Economics  
July-December Semester, Final Exam, 2018  
Course title: Farm Management    Course code: FAM-602

Total Marks: 40

Time: 2 hours

Questions are of equal value. Answer any **04 (Four)** questions of the following:    4x10=20

1. Explain two economic principles which applied to farm management. Briefly discuss the role of farmer as a manager.
2. Differentiate between partial and complete budgeting. Draw a hypothetical balance sheet of a livestock farm of 31<sup>st</sup> December, 2017.
3. Discuss factors affecting the choice of farming for an individual farm.
4. Define PRA. What tools would you apply in conducting PRA? Explain any three tools that you can apply for collecting data for specific purpose.
5. Distinguish between farm survey and case study. Discuss the methods that are used in measuring farming efficiency for specific issue in farm management.
6. Write short notes on any two of the following:
  - a) Valuation and acquisition of a farm
  - b) Technical Efficiency vs Productivity
  - c) Farm management research vs Farming system research.

-----GOOD LUCK-----

Chittagong Veterinary and Animal Sciences University  
Department of Physiology, Biochemistry and Pharmacology  
**MS in Pharmacology July-December Semester Final Examination-2017**  
**Course Title:** Chemotherapy of Parasitic Diseases  
**Course Code:** CPD-602  
**Total Marks:** 40.0; **Time:** 2 hours

*Figures in the right margin indicate full marks. Answer any **Four (4)** questions from the followings:*

1. a) Classify antiparasitic drugs with example. Diagrammatically show the general mode of action of anthelmintics. 4.0  
b) What are the clinical judgments of using anthelmintics in veterinary practices? 2.0  
c) Justify the use of triclabendazole and oxiclozanide against fasciola infection on ruminants. 4.0
2. a) Classify the drugs of Benzimidazole group. Comparatively discuss about the pharmacology of albendazole and fenbendazole use in livestock. 4.0  
b) A puppy brought to a veterinarian with a problem of pot belly appearance due to parasitic infection. Which drug would you prefer for the animal and how the drug works? Write its name with trade and proper dose. 4.0  
c) Mention some pregnancy safe anthelmintics with their trade preparations. 2.0
3. a) When do you suggest using anticoccidial drugs? Outline the therapeutic approach in controlling and treating coccidiosis in poultry of Bangladesh. 4.0  
b) Compose proper prescriptions of drugs for anaplasmosis, babesiosis, theileriosis and trypanosomiasis. 4.0  
c) A goat facing a problem of diarrheatic feces where found rice gruel appearing substances. How could you handle the patient using the appropriate drug preparation? 2.0
4. a) "Ivermectin acts as an antibiotic"- do you agree with this statement? Clarify your opinion. 2.0  
b) Write down the detail pharmacology and toxicity about ivermectin use on different animal. 4.0  
c) How do piperazine and levamisole work against nematodes? Illustrate the indications, doses, pharmacokinetics, merits and demerits of levamisole. 4.0
5. Short note (any four): (2.5 X 4) 10
  - a) Praziquantel
  - b) Metronidazole
  - c) Anthelmintic resistance
  - d) OP insecticide poisoning
  - e) Parasitic control strategy

July-December MS in Pharmacology Final Examination-2017  
Department of Physiology, Biochemistry and Pharmacology  
Faculty of Veterinary Medicine  
Chittagong Veterinary and Animal Sciences University  
Course Title: Systemic Pharmacology; Course code: SPM-602  
Total Marks: 40; Time: 2.00 hours

Answer any four (4) questions from the following:

- Q1. a. Differentiate alkaloid from glycosides. Write down the pathway of adrenaline synthesis 5.0  
b. Differentiate purgatives from laxatives? Write down the justification of use of emetics and anti-emetics. 5.0
- Q2. a. Differentiate bronchodilators from expectorants. Write down the dose, mode of action, indication, contraindication of salbutamol. 5.0  
b. Differentiate heart tonic from heart stimulants. Write down the mode of action of heart tonic. 5.0
- Q3. a. List the drugs acting on urinary system. Write down the mode of action, dose, indication and contraindication of furosemide. 5.0  
b. How will you differentiate high efficacy diuretics from low efficacy? Write down the use of urinary acidifier, antiseptics and alkalizer. 5.0
- Q4. a. Differentiate local anaesthetic from general anaesthetic? Write down the dose, mode of action, indication, contraindication of ketamine. 5.0  
b. Write down the stage of anaesthesia. 5.0
- Q5. Write short notes on (any four): 2.5x 4 10  
a. STYPTICS b. Antizymotics c. Barbiturates d. Anticoagulants e. Thiazide diuretics f. Purgatives



July-December MS in Pharmacology Final Examination-2017  
Department of Physiology, Biochemistry and Pharmacology  
Faculty of Veterinary Medicine  
Chittagong Veterinary and Animal Sciences University  
Course Title: Toxicology of Pesticides  
Course code: TOP-602; Total Marks: 40; Time: 2.00 hours

Answer any four (4) questions from the following:

- Q1. a. Differentiate organo-phosphorus poisoning from organo-carbamate poisoning. 5.0  
b. Write down the clinical signs, diagnosis and line of treatment of DDT poisoning. 5.0
- Q2. a. Write down the factors related to Organochlorine poisoning in livestock. 5.0  
b. Write down the mode of action, diagnosis and treatment of nicotine poisoning. 5.0
- Q3. a. Write down the common public health hazard caused by pesticides. 5.0  
b. How will you diagnose and treat acute arsenic poisoning. 5.0
- Q4. a. Briefly describe the effects of pesticides and herbicides on honey bees and fish. 5.0  
b. Write down the function and mechanisms of ideal fumigants in poultry? 5.0
- Q5. Write down the notes on (any four): 4x2.5 10  
a. Rotenone b. Strychnine c. ANTU d. Sulfer poisoning e. Carbon dioxide f. Zinc phosphide

Chittagong Veterinary and Animal Sciences University  
 Department of Physiology, Biochemistry and Pharmacology  
**MS in Pharmacology July-December Semester Final Examination-2017**  
**Course Title:** Toxicology of Drugs and Chemical Residues  
**Course Code:** TCD-602 (T)  
**Total Marks:** 40.0; **Time:** 2 hours

*Figures in the right margin indicate full marks. Answer any **Four (4)** questions from the followings:*

1. a) Explain about drug and chemical residue. Why residue of drugs is significant on food safety concern? 4.0
- b) Distinguish drug toxicity from food toxicity. How would you assess human health risk issues due to residues? 4.0
- c) Outline the recommendations of WHO to reduce the overuse and misuse of antimicrobials in food animals. 2.0
  
2. a) Illustrate the margin of exposure. How could you evaluate the exposure margin of antimicrobial residues? 2.0
- b) Design the detection protocol of antimicrobial residue from a live broiler market sample. 4.0
- c) Demonstrate on legislation, act and ordinance. Execute the legislations regarding veterinary drug residues in foodstuff of animal origin. 4.0
  
3. a) What is hazard? Differentiate between short term and long term hazard. 3.0
- b) Define biosensor. How biosensor and mechanical immunosensor works to detect chemicals entering into the food chain and the environment? 3.0
- c) Compose the principle of cytotoxic chemotherapy. Enlist the best choice of drugs for this therapy. 4.0
  
4. a) Interpret about tolerance and withdrawal time. Show the limitation for maintaining withdrawal time and tolerance level of drugs and chemicals. 3.0
- b) Why oxytetracycline should not be used in milking animal and laying poultry? 2.0
- c) Compute a table about the contraindication and potential adverse effects of commonly used antibiotics, sulphonamides and steroids in livestock. 5.0
  
5. a) Why Chloramphenicol and Nitrofurantoin are banned? Make an alternate safe choose and justify your suggestion. 3.0
- b) Enlist some nephrotoxic and hepatotoxic agents those create detrimental effects to livestock. 2.0
- c) Short note (any two): 5.0
  - i) Genotoxic
  - ii) Use and hazard of radioisotopes
  - iii) NOAEL and LOAEL

**Chittagong Veterinary and Animal Sciences University**

Department of Physiology, Biochemistry & Pharmacology

MS (Pharmacology)

Final Examination-2017

July-December Semester

Sub: Endocrinology and Nutritional Pharmacology (ENP-602)

Total Marks: 40

Time: 2 hours

**Answer the following questions (any four). Here question one and two compulsory.**

**4 x 10 = 40**

1. a) What is the production output from the cow?  
b) What factors that will determines milk output is a dairy cow?  
c) Briefly explain the physiological mechanisms involved for the use of the hormones?  
d) What would lead you to suspect the cow might be exhibiting sub estrus?
2. a) What hormone would you use?  
b) What are the critical times?  
c) How can poor estrus detection be differentiated from sub estrus?  
d) How might poor estrus detection be improved in the short term?
3. a) Why might a cow be inseminated in dioestrus?  
b) How will the assay identify the error?  
c) Why should poor fertility reduce the profitability of the herd?  
d) In a seasonally calving herd, why should the heifers be served a month before the cows.
4. a) What are the problems associated with cows having twins?  
b) Other than abortion, what will be the consequences if it in not treated?  
c) Based on your experience, why should we be concerned about dystocia?  
d) How does it reduce reproductive performance?
5. a) How does it reduce other aspects of productivity?  
b) Why might HCG injections improve libido?  
c) How does conditioning depress libido?  
d) A bull with good libido & able to mount a inoestrus does not protrude its penis. What re the causes?

# Chittagong Veterinary and Animal Sciences University

Department of Physiology, Biochemistry & Pharmacology

MS (Pharmacology)

Final Examination-2017

July-December Semester

Sub: Pharmacy (VPHA-618)

Total Marks: 40

Time: 2 hours

**Answer the following questions (any four).**

**4 x 10 = 40**

1. a) Elaborate the following terms:  
i) CGMP; ii) PPIC; iii) DAR; iv) WFI; v) PMD; vi) PQC; vii) PD; viii) MDI; ix) ISO; x) API;  
b) How many dosage forms are used in pharmaceutical industry discuss them.  
c) What is capsule? Write down the size of capsule? How control the quality of capsule.
2. a) How many types of water used in pharmaceutical industry? Describe them.  
b) What is contamination? Describe the sources of contamination?  
c) What is process validation?
3. a) What is GLP? Discuss the benefits & essential elements of GLP?  
b) Write down the process flow diagram of tablet?
4. a) How can you set up a pharmaceutical factory / premix factory? Describe them.  
b) Write down the difference between suspension & emulsion?  
c) What is coating? Write down the types of coating?
5. a) What is pharmaceutical pilot plant? Describe its importance?  
b) Discuss the criteria for quality of any drug / product?  
c) What is Q.A? Write down the activities of Q.A?
6. a) Define & classify inventories / store? Discuss them.  
b) How can you control raw materials?  
c) What is market complaint of a product? How can overcome these or response of market complaint?