

Chittagong Veterinary and Animal Sciences University

M S in Animal and Poultry Nutrition

July- December Semester Final Examination 2022

Course title: Reproduction and Nutrition

Course Code: RPN-602

Total marks: 40

Time: 2 hour

Answer any 2 (two) question from the following. Values are indicated in the right margin in each question.

1. a) Distinguish the role of nutrition for the development of cow's reproductive system. **5**
b) Formulate a ration for a late pregnant cow having 300 kg live weight and daily weight gain 250g and the cow producing 10 liter milk daily. **10**
c) Mention the factors for feed intake of a cow with its application for ration formulation. **5**
2. a) Define BCS. Describe the BCS for breeding cows and bull. **5**
b) Write how you will analyze the dairy herd fertility under cooperative dairying conditions of Bangladesh? **8**
c) What is feeding standard? Describe any one feeding standard with its' limitations. **7**
3. a) Explain the value of milk? Briefly write the causes of variation in the yield and composition of milk from cow. **6**
b) Describe the breeding and post breeding management of bull. **4**
c) Narrate a ration for 3.0 years old bull having 450 kg live weight and dairy live weight gain is 350g and which are using semen collection twice per week and ejaculate volume is 8 ml. **10**

MS in Animal and Poultry Nutrition Final Examination
July to December Semester/2021
Sub: Forage Production and Grassland Management
Course code: FGM-602
Marks: 40 Time: 2 hours

(Answer any four questions from the following in which Q no 1 is compulsory. Figure in the right margin indicates full marks)

1. a. What do you mean by grass land? Indicate the importance of grass land for Animal production. 4.0
b. Discuss briefly about Temperate Grasslands, Savannahs and Shrub land, and Flooded grasslands. 6.0
2. a. Briefly discuss the possible way of Forage/ fodder production in Bangladesh. 4.0
b. Discuss briefly about the morphology, fertilizer dose, time and method of sowing, management and utilization, yield and nutritive value of German, Alfa alfa and Jumboo fodder. 6.0
3. a. Discuss briefly storage methods of forage and write how you will preserve the legume fodder. 5.0
b. Write down the name of three poisonous plants available in Bangladesh for animals and indicate their toxic dose, Clinical signs and Treatments. 5.0
4. a. Mention the factors that affect the nutritive value of grassland. 4.0
b. List the Unconventional feed available in Bangladesh and Indicate the nutritive value of any five of them. 6.0
5. Write short notes on (Any Two) 5.0 x 2 =10
 - a. Grassland Ecology.
 - b. Guinea fodder cultivation.
 - c. Deferred and Zero grazing.

Department of Animal Science and Nutrition
Chattogram Veterinary and Animal Sciences University
MS in Animal and Poultry Nutrition
Semester Final Examination (July-December 2021)
Course Title: Ruminant Nutrition (Theory)
Course code: RNT-602, Full marks: 40, Time: 2 hours

Figures in the right margin indicate full marks. Answer any four (4) questions. All questions must be answered chronologically!

1. How do feed factors intrinsically regulate rumen kinetics and microbial community trends? What are the consequences of fiber type and roughage to concentrate ratio on dynamics of rumen environment? 10.0
2. What factors should you consider to ensure optimization of fiber utilization in ruminant animals? How do the nature and quantity of dietary fiber for ruminant animals interfere the public health issues? 10.0
3. Is there any connection among sub-acute ruminal acidosis (SARA), acute ruminal acidosis (ARA), chop length and p_e NDF content of a dairy ration? How do SARA turn to ARA? How does ARA provoke sub-clinical lameness in crossbred dairy cows? 10.0
4. Under which specific circumstances feeding of UDP rich supplements is truly a noble approach? Do you think supplying RDP in ruminants is simply a wastage? How should you optimize availability of dietary nitrogen in the ruminant animals? 10.0
5. How should you formulate least cost ration for the crossbred commercial dairy cattle of Bangladesh? Which feeding system would be most applicable for them? Suggest the specific ways of reducing feed cost for the dairy animals. 10.0

Department of Animal Science and Nutrition
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MS in Animal and Poultry Nutrition Final examination
July-December Semester 2021
Subject: **Lab. Pet and Wild Animal Nutrition (LPW-602)**
Full marks: 40, Time: 2 hours

Figures in the right margin indicate full marks. Answer any **FOUR** from the following questions. Fragmented answers will not be taken into consideration.

1. a) As a veterinarian, what are the dietary managements you will keep in consideration for your cat patient after an abdominal surgery? 5.00
- b) What do you mean by wild animal, lab animal, germ free diet and purified diet? 5.00
2. a) Write down the nutrient requirements and feeding management of dog in different physiological state. 8.00
- b) Enlist the foods which are toxic to dog. 2.00
3. a) Write down the principles of feeding of laboratory and pet animals. 5.00
- b) Classify the dog food with their nutrient composition. 5.00
4. a) Write down the difference between starvation and inanition. Write down the characteristics of diet for Zoo animals. 5.00
- b) Discuss the dietary management should be undertaken for Wild animals during adverse environmental conditions. 5.00
5. a) Write down the short note on: 10.00
- i) Specialized diet for cat
- ii) Nutritional problems of zoo and wild animals.

MS in Animal and Poultry Nutrition Final Examination

July to December Semester/2021

Sub: Avian Nutrition

Course code: AVN-602

Marks: 40 Time: 2 hours

(Answer any four questions from the following in which Q no 1 is compulsory. Figure in the right margin indicates full marks)

1. a. Mention the possible ways to contaminate of Avian feed. 3.0
b. Write down the techniques for elimination of main anti- nutrients from animal feed. 7.0
2. a. Why restricted feeding is important in poultry? Write down about the feeding system/ ways of poultry feeding during heat stress. 5.0
b. Write down the feeding management and nutrient requirement for Quail, Pigeon and Guinea fowl. 5.0
3. Indicate the name of fungi responsible for Aflatoxicosis, Vomitoxin, and Zearalenone, T-2 toxin and mention their source and effect on animal body. 10.0
4. a. Mention the common Embryo deficiency symptom for vitamins and mineral. 5.0
b. What do you mean by probiotics and prebiotics? Discuss briefly their advantages of using in poultry feed. 5.0
5. Write short notes on (Any two) 5.0 x 2 =10
 - a. Feeding management of laying hens and growing pullets.
 - b. Deficiency symptom of protein, calcium and salt in poultry.
 - c. Phase feeding.

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Department of Animal Sciences and Animal Nutrition
M.S. in Animal and Poultry Nutrition
Semester final examination July December-2021
Sub: Animal Products in Human Nutrition (T)
Full marks-40: Time: 2 Hours

Answer any four questions from the following

1. a) Describe about the meat and meat products for human consumption. 5
b) Write down the role of meat and meat product with their bad effect. 5
2. a) Describe about the essential amino acids for human health. 5
b) Mention about the saturated and unsaturated fatty acids for human health. 5
3. a) Mention about the nutritional requirement of human with different age group. 5
b) Describe about the role of animal products in Human health. 5
4. a) What do you know about the egg products for human consumption. 5
b) Mention about the importance of egg and egg products with their bad effects. 5
5. a) Describe about the residual effect of antibiotics on human health. 5
b) What do you know about the nutritional value of milk with adverse effect? 5