Department of Animal Science and Nutrition
MS in Animal Science
Semester Final Examination 2020
Semester: July-December 2020
Course title: Wildlife Conservation and Environment (WCE-602)
Course code: WCE-602

Answer to the following questions (Any four). Figures in the right margin indicate full marks.

Full marks: 40   **Time: 2 hour**

1. a) Classify according to IUCN of the threatened and endangered species of animal.   5.0

    b) Shortly describe the different ways of wildlife conservation.   5.0

2. a) What are the causes of extinction of wild animal? Explain shortly.   5.0

    b) State the manmade causes of habitat degradation.   5.0

3. a) Define captive breeding. Write down the limitations of captive breeding.   5.0

    b) Briefly describe the methods of captive breeding.   5.0

4. a) What is IUCN and CITES? Explain shortly objectives and activity of IUCN and   5.0

    CITES.

    b) Zoo is not only for entertainment but also for education and research- Justify.   5.0

5. a) Explain the conservation of biodiversity in Bangladesh.   5.0

    b) Mention the principles of enclosure design in a zoo. Write down the principles   5.0

    of feeding wild animals in captivity.

--------- The end ----------

Department of Animal Science and Nutrition
MS in Animal Science
Semester Final Examination 2020
Semester: July-December 2020
Course title: Animal By-products and Waste Management
Course code: AWM-602

Answer to the following questions (Any Four). Figures in the right margin indicate full marks.

Full marks: 40   **Time: 2 hour**

1. a) What are the important slaughter house by-products available in Bangladesh? 5.0
   Mention their appropriate uses.

   b) Describe shortly the chemistry of hides and skins.   5.0

2. a) Write down the process of blood meal preparation from animal blood.   5.0

   b) Differentiate manure, compost and biogas. Mention the sources of animal 5.0
   wastes. Write down the quantity of manure voiding by different animal.

3. a) Illustrate the diagram of sources and transmission pathways of pathogens from 5.0
   animal to human.

   b) What do you mean by environment protection act? Explain the main features of 5.0
   this act.

4. a) "Water is a vital nutrient of the animal body" Justify yourself.   5.0

   b) Briefly describe the direct and landfill waste disposal procedure.   5.0

5. Write short notes on (Any Two):   5.0 x 2 =   10.0

   a) Biogas plant

   b) Air act

   c) Water act

--------- The end ---------

Chattogram Veterinary and Animal Sciences University
Department of Animal Science and Nutrition
MS in Animal Science
Semester Final Examination (July-December, 2020)
Course Title: Meat and Meat Products Technology (Theory)
Course Code: MPT-602

Time: 2 hours   Full Marks: 40

(Answer any five (5) questions. Figures in the right margin indicate full marks)

1. "Meat is an essential component of human diet"- Explain.   8
2. Classify different methods of slaughter. Describe the rules of Jewish method with their   8
   advantages and disadvantages.
3. Define dressing percentage. Shortly describe the processing of pig in a slaughterhouse.   8
4. Discuss the abnormal findings of ante-mortem and post-mortem inspection of animals.   8
   Mention the ante-mortem and post-mortem symbols on carcass.
5. Write down the mechanism of development of acidification and rigor mortis in meat.   8
   Describe the process of conditioning.
6. Mention different methods of preservation of meat. Illustrate the methods most suited   8
   for Bangladesh.
7. What are the common sources of meat contamination? Write down how the   8
   effectiveness of cleaning is determined in a meat plant.

Chattogram Veterinary and Animal Sciences University (CVASU)
Department of Animal Science and Nutrition
MS in Animal Science
Jul to Dec Semester Final Exam 2020
Course Title: Livestock Business Management
Course Code: LBM-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) Explain the critical constraints of the livestock sector in Bangladesh. 2

B) Differentiate among Marketing, Selling and Shopping. 4

C) Describe the three components of the Agribusiness System with examples. 4

2) Suppose you are working as Marketing Manager at Padma Meat, a new company in the industry. They are planning to sell processed meat in Chattogram market. Based on this, answer the following management queries.

A) Develop Mission and Vision statement for Padma Meat. 3

B) Develop three SMART Marketing Objectives for the company. 3

C) Propose some ideas for management approval to create value for your product. 4

3) A) The company's product promised to a major customer is running late and there was intense pressure on the production team to deliver the product. The Direction of Production was eventually told by the company President to "deliver or else." Therefore, the Director decided to ship the product, even though it had not gone through all its testing procedures. Members of the product team were angry by the uncertainty in the functionality and reliability of the shipped product. The Director, however, insisted: "We will just have to take that chance."

As the Director of Production, how would you act differently? 6

B) Show the general skills you need to develop to be a good manager 4

4) A) Illustrate the basic communication model and interpret it. 4

B) Explain the importance of Business Communication and provide examples. 3

C) Summarize the Control Process. 3

5) A) Suppose you are a Dairy Farm Manager. Explain the factors you will consider while hiring a Veterinary Doctor for your farm. 4

B) Mention the content titles of a typical Business Plan. 4

C) "No business plan, no money"- Do you agree? Justify your answer. 2

Chittagong Veterinary and Animal Sciences University
M S in Animal Science
July-December Semester Final Examination 2021
Course title: Advance Animal Breeding
Course Code: AAP-602
Total marks: 40
Time: 2 hour

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

1. a) Distinguish between breeding goals and breeding scheme. List the breeding schemes for sire selection. **3**

    b) Indicate the current dairy cattle breeding policy in Bangladesh. Write the drawbacks and prospects of this policy. **7**

    c) What is breeding design? How will you design a structured genetic improvement programme for dairy development in Bangladesh. **10**

2. a) What is breeding objective? How will you develop the breeding objective from a dairy herd consisting of 12 cows having average live weight is 320 kg and each cow produces 2500 liter milk and 120 kg fat per lactation. Per unit price for milk, fat and meat is Taka 60/=, 600/= and 220/= , respectively. **8**

    b) What is mixed model equation? Write down its application for estimating BLUP breeding values. **4**

    c) What do you mean by genetic gain? List the causes of genetic gains of milk from cow. Estimate the genetic gains for milk yield using the bull to cow and cow to cow path way of selection from a hypothetical dairy herd. **8**

3. In an attempt to breed deer that will provide a greater quantity of meat and quality of skin 25 years from now, the OCTRACT company decided to develop their own deer selection programme. Their economists forecast that the net present value of an extra unit of skin quality will be $6 white the value of an extra kilogram of meat will be worth $25. Given the difficulty of measuring both of these two traits directly, OCTRACT geneticists decided to use skin pliability as an indirect predictor of skin quality and live-weight as an indirect predictor of meat quantity, both measured at 3.0 years of age.

	Std. dev.	Leather	Meat	Pliability	Live-weight
Skin (units)	0.37	**0.30**	-0.50	0.55	-0.30
Meat (kg)	14.25	-0.30	**0.45**	0	0.22
Pliability (mm/cm)	6.50	0.65	-0.10	**0.22**	0.10
Live-weight (kg)	3.76	-0.40	0.50	-0.20	**0.32**

Std.dev is the phenotypic standard deviation. Heritability's are on the diagonal, genetic correlations below the diagonal and phenotypic correlations above the diagonal.

Assume that selection of new parents is based on a single record of their own performance. Given the above information:

    a) State the selection objective and selection index in terms of linear equation. **2**

    b) Derive the index weighting factors using Best Linear equation. **15**

    c) One particular bird has a pliability deviation of +7 and a live-weight deviation of -2.25 what is the aggregate genetic merit. **3**