

**Chittagong Veterinary and Animal Sciences University**  
**MS in Animal Breeding and Genetics**

**(July- December semester) Final Examination-2015**

Course: Poultry Breeding; Course code: PBR- 602

Full Marks- 40; Time- 2.00 hours

Date- 13/12/2015

Answer any four questions. Figures in the right margin indicate the full marks.

1. a. What is poultry breeding? Write down the importance and scope of poultry breeding in Bangladesh. 5
- b. What are characteristics you will consider for selecting egg and meat type chicken/hen to produce high productivity layer and broilers? Discuss in brief all the characteristics. 5
2. a. What is selection criteria? Write down the effects of selection. 3
- b. Why family selection is more important in poultry as compared with other methods of selection? Discuss in details. 7
3. a. What is nicking? Briefly discuss with example the general and specific combining ability. 6
- b. Briefly discuss the different methods of sexing of baby chicks. 4
4. a. How will you design a breeding program for the production of commercial broiler? Discuss briefly. 7
- b. Write down the application of line breeding for poultry production. 3
5. Write short notes on: 10
  - (i) Reciprocal recurrent selection
  - (ii) Selection index



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**MS in Animal Breeding and Genetics**  
**(July-December semester) Final examination- 2015**  
**Subject: Wildlife Breeding and Management**  
**Course Code: WBM- 602**  
**Full marks: 40; Time: 2 hours**  
**Date: 23/12/2015**

Answer any four questions from the following. Figure in the right margin indicate full marks.

1. Write a short note about conservation of Royal Bengal Tiger in Bangladesh. 10
2. How you will do census of wild birds? Write down the procedure of bird ringing. 10
3. What are the features and activities of a modern wildlife conservation center? 10
4. How you will do prevention and control of wildlife diseases. 10
5. Write a short note about captive breeding of wildlife. 10
6. What is the future of deer farming in Bangladesh? Write down about the deer farming. 10



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**(July- December semester) Final Examination-2015**

Course: Molecular Genetics; Course code: MGN- 602

Full Marks- 40; Time- 2.00 hours

Date- 17/12/2015

Answer any four questions. Figures in the right margin indicate the full marks.

1. a. What do you mean by Promoter, Enhancer and Silencer? 3  
b. How gene is express and regulate in the cell? Discuss in brief. 7
2. a. How you can construct the transgene? Write down the basic steps of inserting the transgene. 6  
b. What is Electrophoresis? How will you make the gel for electrophoresis? 4
3. a. Write down the purpose and principle of PCR. 4  
b. What is molecular phylogenetic? Briefly discuss the different methods of phylogenetic construction. Write down the application of molecular phylogenetic. 6
4. a. How you can partition total genetic variances considering one and multi-locus model. Explain in brief. 5  
b. Write down the application of DNA finger printing and what are major problems encounter using this technology? Discuss in brief. 5
5. Write short notes on (any two): 10
  - (i) Recombinant DNA
  - (ii) Complimentary DNA
  - (iii) Southern blot analysis