

Chittagong Veterinary and Animal Sciences University
Department of Pathology and Parasitology
MS in Pathology
July- December Semester Final Exam. 2015
Sub: General Pathology. Course code- GPT-602
Total Marks- 40, Time- 2 hours.

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

1. (a) What are the microscopic changes found in dead cells? 4.0
(b) Mention the gross and microscopic lesions of moist gangrene and infarcts. 4.0
2. (a) What are the steps found in inflammation during Chonheim's observation? 2.0
(b) Describe the role of macrophages in inflammation. 4.0
(c) Show the process of repair in sketch form. 2.0
3. (a) Define and classify thrombi and emboli. What type of thrombus may cause thrombo-emboli? 3.0
(b) Mention the types of hemorrhages. How you will differentiate hemorrhage from hemorrhagic inflammation? 3.0
(c) Differentiate three type of jaundice in a tabular form. 2.0
4. (a) Describe the causes, mechanism and lesions of fatty change. 6.0
(b) Mention the gross and microscopic lesions of amyloidosis. 2.0
5. (a) What types of necrosis are found in TB and black quarter? Describe the gross and microscopic lesions of these necrosis. 6.0
(b) Briefly describe post mortem autolysis. 2.0
6. (a) Write down the microscopic lesions of neoplastic or anaplastic cells. 2.0
(b) Briefly describe the mechanism of the production of neoplasms by ionizing radiation. 4.0
(c) Enlist ten developmental anomalies commonly found in animals. 2.0

Chittagong Veterinary and Animal Sciences University
Department of Pathology and Parasitology
MS in Pathology
July- December Semester Final Exam. 2015
Sub: Avian Pathology (Theory). Course code- APT-602
Total Marks- 40, Time- 2 hours.

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

1. Write down the post mortem findings of the following diseases: (any four)- 8.0
(a) Pullorum disease in poultry, (b) New Castle disease, (c) Avian tuberculosis,
(d) Histomoniasis, and (e) Duck plague.
2. (a) Describe etiology, epidemiology, pathogenesis and pathology of avian influenza. 5.0
(b) Mention the gross changes found during post mortem examination of chickens affected with IBD. 3.0
3. (a) Describe the pathology of coccidiosis. Is there any relationship between coccidiosis and necrotic enteritis? 5.0
(b) Write a short note on mycotoxicosis. 3.0
4. (a) Enlist the neoplastic diseases found in poultry. Write a short note on Marek's disease. 5.0
(b) Write down the pathogenesis of mycoplasmosis in poultry caused by *Mycoplasma gallisepticum*. 3.0
5. (a) Write down the pathogenesis and pathology of infectious coryza. 4.0
(b) Briefly describe the different forms of colibacillosis found in poultry. 4.0
5. (a) In which viral disease of poultry there is commonly found visceral gout? Write down the pathogenesis and pathology of this disease. 4.0
(b) Describe the conditions produced in poultry due to the deficiency of vitamin E. 4.0

Chittagong Veterinary and Animal Sciences University
Faculty of Veterinary Medicine
Department of Pathology and Parasitology
MS in Pathology
July-December Semester Final Examination 2015
Course title: Pathology of Extraneous Poisoning
Course code: PPT-602
Full marks: 40, Time: 2 hours

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

1. a. Name some arsenic compounds causes poisoning in domesticated animals. 1
b. Describe the acute and chronic arsenic poisoning in domestic animals. 7
2. a. Write a short note on sweet clover poisoning. 5
b. Write down the general steps in diagnosis of poisoning cases. 3
3. a. Write down some common pesticides used in Bangladesh. 2
b. What are the common lesions found in pesticide poisoning? 2
c. Describe the pathogenesis of organochlorine compounds poisoning. 4
4. a. Which plant is responsible for thiamine deficiency in animals? Write down the toxic principles of this plant. 2
b. List the toxic constituents of snake venom. 2
c. Describe the hemotoxic effects of snake venom. 4
5. a. What is strychnine poisoning? 2
b. Which trees are commonly known for causing oleander poisoning? 2
c. Describe the pathogenesis of cyanide poisoning. 4
6. a. How anoxia develops in nitrite poisoning? 4
b. Which plant contains atropine? What happens when an animal eat this plant? 4

Chittagong Veterinary and Animal Sciences University
Faculty of Veterinary Medicine
MS in Pathology
July-December Semester Final Examination 2015
Course title: Immunopathology, Course code: IPT-602
Full marks: 40, Time: 2 hours

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

1. a. Define natural and adaptive, humoral and cell mediated immunity? Write in brief about the cytokines of immunity. 4
b. Write with schematic diagram the actions of humoral and cell mediated immunity. 4
2. a. Write in brief about complement and its action by a schematic presentation. 4
b. Write in brief about clonal selection theory of lymphocytes. 4
3. a. What is hypersensitivity? Classify it with examples. 3
b. Write with schematic diagram the mechanism of type I and type III hypersensitivity. 5
4. a. What is autoimmunity? Write down general mechanisms of autoimmunity. 4
b. Write in brief the mechanism, clinical findings, immunological findings and laboratory diagnosis of Grave's disease. 4
5. a. What is rheumatoid factor? 1
b. Write in brief about transfusion reaction and inborn erythroblastosis fetalis. 3
c. What do you mean by IDDM? Write in brief about IDDM as autoimmune disease. 4
6. a. Define immunodeficiency. Write in brief about "Bare leukocyte syndrome". 3
b. How immunodeficiency diseases are occurred by defects in phagocytic system and B cell deficiency. 5

Chittagong Veterinary and Animal Sciences University
MS in Animal Breeding and Genetics
(July-December semester) Final examination- 2015
Subject: Reproductive Biotechnology
Course Code: RPB- 602
Full marks: 40; Time: 2 hours
Date: 10/12/2015

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

1. What are the advantages of AI over natural Breeding? Write down the limitation and problems of AI in Bangladesh. 10
2. What is estrus synchronization? Write down the several procedures of estrus synchronization in cow. 10
3. Is survival of Spermatozoa is very important for AI? Write down the related factors with survivability of spermatozoa. 10
4. Briefly write about semen dilution procedure of bull. 10
5. Write a short note about IVF of cattle. 10
6. How you will collect oocytes from slaughter house ovary and later grade them? 10