

Chittagong Veterinary and Animal Sciences University

Faculty of Veterinary Medicine

Department of Anatomy and Histology

MS in Anatomy (January-June, 2015)

Course title: Developmental Anatomy (Theory)

Course Code: DAN-601

Total Marks 40

Time: 2 hours

Answer any eight (8) questions

Marks 5×8=40

- 1 Sketch the process of Oogenesis with indicating different periods of its development 5
- 2 Discuss briefly the spermiogenesis with proper diagram. 5
- 3 What is capacitation and acrosome reaction? Draw and label the different phases of fertilization. 5
- 4 Describe the mechanism of implantation of blastocyst in uterus. 5
- 5 Illustrate the process of gastrulation. 5
- 6 How the monozygotic twin is formed. 5
- 7 Describe briefly the process of neurulation. 5
- 8 Briefly describe the genital duct development with proper diagram. 5
- 9 Draw and label the fetal circulation. What are the postnatal changes? 5
- 10 Classify placenta based on the distribution of chorionic villi on the chorionic surface. What are the histological structures involved in formation of placenta? 5

Department of Anatomy and Histology
Chittagong Veterinary and Animal Sciences University
MS in Anatomy January-June Semester Final Exam' 2015
Subject: Anatomy of Immune System
Course Code: AIS-601
Total Marks: 40

Figures in the right margin indicate full marks. Answer any **four** (4) questions of the followings

1. a) Briefly describe the mucosa associated lymphoid tissue (MALT) in chicken. 05
b) Mention the structure and function of T-cell sub populations. 05
2. a) Describe the anatomy of primary lymphoid organs in animal and bird. 05
b) Give a short note on body surface immunity. 05
3. a) Describe the general structure of lymphnode and explain the flow of lymph through this organ in goat. 05
b) Explain the contribution of spleen to the immune response. 05
4. a) What is bone marrow stem cell? Explain it. 05
b) Write short note on Hassall's corpuscles. 05
5. a) What is haematopoiesis? Describe erythropoiesis in detail. 05
b) Describe the role of mast cells in the development of allergy. 05

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Department of Anatomy and Histology

MS in Anatomy January-June Semester Final Examination 2015

Course Title: Cell Biology & Veterinary Histology, Course Code: CVH-601

Full Marks-40, Time: 2 hour

Answer any **eight** questions. Each question has equal mark. (8 x 5 = 40)

1. Briefly describe the molecular structures of a typical cell membrane with special emphasis on receptor.
2. Briefly describe the specific role of different cellular organelles in protein synthesis.
3. Briefly describe the histology of the myeloid tissue.
4. How could you differentiate histologically among the lining cells of proximal, distal convoluted tubule and collecting duct of uriniferous tubules of kidney?
5. Describe briefly the microcirculation of the liver.
6. How the "blood air" and "blood brain" barriers are formed histologically.
7. Briefly describe the histology of reticuloendothelial system or mononuclear phagocyte system or macrophage system.
8. Why cells are look like foamy appearance under microscope in different organs, explain with examples?
9. What do you understand the presence of basophilic or acidophilic granules in the cytoplasm of a cell after routine staining?
10. Why and how the smooth muscle cells are arranged in different patterns in hollow visceral organs, explain with example?