

Department of Anatomy and Histology  
Chattogram Veterinary and Animal Sciences University

MS in anatomy

January-June Semester final examination 2021

Subject: Anatomy of Immune System

Course code: AIS- 601

Total marks: 40, Time: Two (2) hours

Answer any four (4) questions from the followings:

1. a) What do you mean by program cell death? Briefly describe it. 5  
b) Write down the role of B cell in humoral immunity. 5
2. a) Briefly describe T cell maturation. 5  
b) What is Lymphocentre? List the name of lymphocentre in ruminant. 5
3. a) Describe Primary lymphoid organs in ruminant. 5  
b) Draw and label the structure of an antibody. 5
4. a) Briefly describe electron microscopic structures of a lymphocyte. 5  
b) What do you mean by physiological primary barriers? 5
5. a) List the mucosa associated lymphocyte tissue in mammals.  
Describe histology of Peyer's patches. 5  
b) Differentiate between spleen and lymphnode histologically. 5

**Good Luck**



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**MS in Anatomy**

**January-June Semester Final Examination' 2021**

**Course Title: Cell Biology & Veterinary Histology**

**Course Code: CVH-601**

**Full Marks-40**

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

1. Describe the molecular structures of a typical cell membrane with special emphasis on receptor.
2. Briefly describe the ultrastructure of cellular organelles involved in protein synthesis.
3. Write down the histological changes of a uterus during estrus cycle of a cow.
4. Draw and label the histology of the juxtaglomerular apparatus. How does urinary transitional epithelium prevent osmosis between isotonic cellular content and hypertonic urine?
5. Describe briefly the histology of a liver with special emphasis on blood, lymph and bile flow.
6. List the histological strictures which are involved in "blood air", "blood brain" and "blood testis" barriers formation of with diagrams.
7. Describe histology of the gastric, duodenal and general intestinal glands.
8. How do you identify nerve cell body under microscope? Briefly describe the histology of the cerebrum.
9. List the histological characteristics of the spermatogenic cells and a spermatozoon.
10. Why and how muscle cells are arranged in different patterns in different organs, explain with example?



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**MS in Anatomy (January-June) Final examination, 2021**

**Course Title: Developmental Anatomy (DAN-601)**

**Full Marks 40**

**Time 2 hours**

**Answer 8 (eight) questions from the followings.**

**Marks (5×8)=40**

- 1 What is the mechanism of formation of dizygotic twins? 5
- 2 What leads to the development of female reproductive structures during fetal development? 5
- 3 How does the notochord contribute to the development of the nervous system? 5
- 4 Draw and label the fetal circulation with indicating the major changes after birth. 5
- 5 Briefly describe the development of digestive system 5
- 6 What is coelom? How does the coelom develop? 5
- 7 Briefly describe the factors involved in testicular development. 5
- 8 How is placenta formed after implantation of the embryo? 5
- 9 How do hermaphrodites evolve? 5