

**Chattogram Veterinary and Animal Sciences University**  
**Department of Anatomy and Histology**  
**MS in Anatomy (January-June) Final Examination, 2023**  
**Course Title: Cell Biology & Veterinary Histology**  
**Course Code: CVH-601**  
**Full Marks-40**

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

1. Describe the molecular structures of a mitochondrion with a brief function of electron transport chain.
2. Briefly describe the processes and ultrastructure of the organelles involved in protein synthesis.
3. How to form a corpus luteum? Explain the histology of it.
4. Draw and label the juxtaglomerular apparatus. How do histological structures allow filtration in the glomerulus? explain it.
5. Note the histology of a pancreas with figures.
6. Enumerated the histological strictures which are involved in “blood air barrier”, “blood brain barrier” and “blood testis barrier” formation of with diagrams.
7. Describe histology of the spleen and compare it with other major lymphatic organs.
8. How do you identify nerve cell body under microscope? Briefly describe the histology of the nerve.
9. Draw and label the histology of testis and epididymis.
10. Why smooth muscle has no striation 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, 2023**  
**Course Title: Anatomy of Immune System (AIS-601)**

**Full Marks 40**

**Time 2 hours**

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

**Marks (5×8) =40**

- 1) Sketch out the lymphatic system of mammals and birds? 5
- 2) Briefly describe the basic structures of immunoglobulin with diagram. 5
- 3) Describe the macro and microanatomy of thymus concisely in birds and animals. 5
- 4) Describe the Mucosa-associated lymphoid tissue (MALT). 5
- 5) Describe the structure of M cell with its importance in immune system. 5
- 6) Explain the reticuloendothelial (RE) system of birds and mammals. 5
- 7) What is complement system? Describe the classical pathway of complement system. 5
- 8) Discuss the B-cell maturation in mammals? 5
- 9) What is lymphocenter? Note down the different lymphocenter in ruminant. 5

Good Luck

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**MS in Anatomy (January-June) Final examination, 2023**

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

**Full Marks 40**

**Time 2 hours**

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

**Marks (5×8)=40**

- 1 Draw and label a Blastocyst 5
- 2 What is the mechanism of the formation of dizygotic twins? 5
- 3 Epiblast forms all three germ layers- justify this statement 5
- 4 Draw and label the fetal circulation indicating the major changes after birth. 5
- 5 Briefly describe the development of the Respiratory system 5
- 6 What is coelom? How does the coelom develop? 5
- 7 What leads to the development of female reproductive structures during fetal development? 5
- 8 How is the placenta formed after implantation of the embryo? 5
- 9 How do hermaphrodites evolve? 5