

Department of Anatomy and Histology
MS in Anatomy
MS July-December/2015 Final Exam
Subject: **Immunohistochemistry**
Course Code: IHC-602
Total Marks: 40

Answer any **05** (five) questions from the followings.

1. a) Define immunohistochemistry. Write down the common uses of immunohistochemistry. 4
b) Define antigen, antibody and epitope. Briefly describe different types of antibody. 4
2. Explain various immunohistochemical techniques used in the laboratory. 8
3. a) List the immunohistochemistry staining reagent. 4
b) Mention some common diagnostic immunohistochemical markers. 4
4. Briefly describe the steps in tissue processing for paraffin sections. 8
5. What are the application of immunohistochemical double staining techniques and protocols? 8
6. a) List the common fixatives used in immunohistochemistry. 4
b) What are the differences between direct and indirect methods in immunofluorescence. 4
7. Write down short note on any 2 (two) of the followings. 4×2=8
 - i. Endogenous enzyme activity
 - ii. Avidin-Biotin Complex method
 - iii. Blocking of endogenous substances in immunohistochemistry.

Department of Anatomy and Histology
Chittagong Veterinary and Animal Sciences University

MS in Anatomy (July-December, 2015)

Course title: Evolutionary Anatomy (Theory)

Course Code: EVA-602

Total Marks 40

Time: 2 hours

Answer any five (5) questions

Marks 8×5=40

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| 1 | a) Explain the “Law of Biogenesis” | 5 |
| | b) How does comparative embryology provide evidence of evolution? | 3 |
| 2 | a) What are the five characteristics of Chordates? | 5 |
| | b) Explain “Darwin's Theory of Evolution by Natural Selection” | 3 |
| 3 | How does the skeleton differ among mammals for environmental adaptation? | 8 |
| 4 | Briefly describe the origin and evolution of respiratory tract in vertebrates. | 8 |
| 5 | Describe the evolutionary changes of vertebrate skin. | 8 |
| 6 | Briefly describe the evolution of primate brain. | 8 |