

Department of Anatomy and Histology
Chattogram Veterinary and Animal Sciences University
MS in Anatomy (July-December) 2021 Final examination

Course Title: Molecular Biology (Theory)

Code: MBI-602

Full marks: 40, Time 2 hours

Answer any eight (8) questions from the followings

Marks 5×8=40

1. What is a promoter? Why promoter is significant in gene function? 5
2. Explain the importance of the DNA repair mechanism. 5
3. Briefly describe the process of RNA directed DNA synthesis 5
4. Write brief notes on RNAi and siRNA. 5
5. What are Restriction Endonucleases, ligases, and phosphatases? 5
6. How the ATP is produced in oxidative phosphorylation? 5
7. What is a ligand in cell signaling? List the signaling molecules? 5
8. What is the primary function of the β -oxidation pathway? 5
9. Why DNA replication is called semiconservative? 5
10. What are post-translational modifications? 5

Chattogram Veterinary and Animal Sciences University

Department of Anatomy and Histology

MS in Anatomy (July-December) Final Examination, 2021

Course title: Evolutionary Anatomy (Theory)

Course code: EVA – 602

Total Marks: 40 Time duration: 2 hours

Answers any four (4) questions from followings. Figure in the right margin indicates marks of respective question.

1. (a) Briefly describe the evolutionary relationship between reptiles and birds. 6
(b) Write down the zoological classification of cattle and horse. 4
2. (a) Write down the prenatal development of mammalian brain. 6
(b) Write down the zoological classification of tiger and dog. 4
3. Shortly describe the development of chicken embryo. 10
4. (a) Sketch out the embryonic blood circulation of bird. 5
(b) List down the characteristics of mammals. 5
5. (a) Briefly describe the development of mammalian heart. 5
(b) Shortly describe the gonadal development of mammals. 5

Good Luck