SHAH JALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, SYLHET
Department of Genetic Engineering and Biotechnology
B. Sc. (Hons) 2nd Year 1st Semester Examination, 2012
Course No. GEB 201, Course Title: Zoology
Credit: 3 Total Marks: 70 Time: 3 hours

Instructions:

- *Number in the right side indicates the marks of the question*
- *Marks for each question are same*
- *Answer any* **five (5)** *of the following questions.*

1. a) Define Taxonomy. Mention the basic units of classification with suitable example. 1+4
   b) Write the rules of nomenclature according to ICZN. 4
   c) Write down the characteristics of largest phylum in animal kingdom. 5

2. a) Write the systematic position of prawn. 3
   b) Briefly describe the life history and development of Prawn 5
   c) What are the general characteristics of *Labeo rohita*. 3
   d) Write the economical and biotechnological importance of *Labeo rohita*. 3

3. a) Define ecosystem. What are the basic components of an ecosystem? 1+2
   b) Briefly describe a pond ecosystem with examples. 6
   c) State the ecological impact by changing the climate. 5

4. a) What do you mean by spermatogenesis? 2
   b) Explain in brief the process of spermiogenesis. 7
   c) Differentiate between spermatogenesis and oogenesis. 5

5. a) What is silk and honey? 3
   b) Write down the life cycle of silk worm. 5
   c) Write the economic importance of silk and honey. 6

6. a) What is disease, pathogen and parasites. 3
   b) Points out the way of a disease study. 3
   c) Describe the anthrax disease of cattle with causative agents, symptoms and control measures. 8

7. Write short notes on any FOUR of following: 3.5×4=14
   a) Tuberculosis
   b) Febrine
   c) Food web
   d) Gill rot
   e) CJD

(a) What is damped harmonic motion? Write down the differential form of damped harmonic motion. 4
(b) Find out the average power dissipated in damped harmonic motion. 7
(c) Show that the lower the value of damping (b), the higher the value of quality factor. 3

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