

B.Sc. (Hons.) SEMESTER I EXAMINATION 2016-17

ZOOLOGY

ZOB - 101 : Systematics & Animal Diversity and Animal Form & Function

(Old Course 2009-10 Syllabus)

Time : Three hours

Max. Marks : 70

(WRITE YOUR ROLL NO. AT THE TOP IMMEDIATELY ON THE RECEIPT OF THIS QUESTION PAPER)

NOTE : USE SEPARATE ANSWER BOOK FOR EACH SECTION.

Section A : Systematics & Animal Diversity

(Marks : 35)

Note: Answer **three** questions including **question 1** which is compulsory

1. (a). Differentiate between the following: 2x2=4
(i) *Petromyzon* and *Myxine*
(ii) Prototheria and Eutheria
(b). Define the following: 1x3=3
(i) Binomial Nomenclature
(ii) Species
(iii) Homology
(c). Write whether the following statements are **True** or **False**, giving reasons in two to three sentences: 2x2=4
(i) Honey bees belong to class Crustacea of phylum Arthropoda.
(ii) Water vascular system is found in *Asterias*.
2. (a). Discuss the distinguishing features of lizards and snakes with at least three examples of each group. 6
(b). What is species concept? Discuss typological and biological species concept. 6
3. (a). Enumerate salient features of the animals belonging to Phylum Mollusca. Classify this phylum up to its different classes with their examples. 6
(b). Describe flight adaptations in birds. 6
4. Write notes on the following: 6x2=12
(i) Hemichordates
(ii) Dipnoi

Section B : Animal Form & Function

(Marks : 35)

Answer any *three* questions including, Question No.1 which is *compulsory*.

1. (a) Define the following 1 x 3 = 3
- (i) Food vacuole
 - (ii) Malpighian tubules
 - (iii) Microglia
- (b) State whether the following statements are *True* or *False* giving reasons: 2 x 4 = 8
- (i) Closed circulatory system is present in Earthworm.
 - (ii) Flame cells are present in vertebrates for excretion.
 - (iii) Bidder's canal is present in aves.
 - (iv) Axon terminals are involved in the formation of synapse.
2. (a) With the help of a suitable diagram describe the function of mammalian kidney. 6
- (b) Explain the circulatory system of a cockroach. 6
3. (a) Draw a labeled diagram of ommatidium and write its function. 6
- (b) Discuss different types of asexual reproduction in animals. 6
4. Write short notes on the following: 3x 4
- (a) Structure and function of gills
 - (b) Parthenogenesis
 - (c) Phonoreception in fish

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