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[Roll No.

BS/Sem I/2(AB)

B. Sc. (Hons.) Semester I Examination, 2016-17

ZOOLOGY

Paper : ZOB-101

(Animal Diversity & Animal Form and Function)

Time : Three Hours]

[Full Marks : 35 + 35

[Write your Roll No. at the top immediately on the receipt of this question paper.]

SECTION – A

35

(Animal Diversity)

Note : Answer *three* questions including question No. 1 which is *compulsory*.

1. (a) State whether the following statements are *true* or *false*. Justify your answer in 2-3 sentences :

2 × 3 = 6

(i) *Blanoglossus* belong to class Pterobranchia of Phylum Hemichordata.

(ii) Birds are glorified reptiles.

(iii) Colloblasts are found in Cnidarians.

(b) Distinguish between the following : 3 × 1 = 3

(i) Protostomes and Deuterostomes.

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(ii) Urodela and Anura.

(iii) Pseudocoelomate and coelomate.

(c) Define the following : 2 × 1 = 2

(i) Statocyst

(ii) Symmetry

2. (a) Classify phylum protozoa up to classes giving characteristic features and examples of each class. 7

(b) Differentiate between cartilaginous and bony fishes. 5

3. (a) Classify phylum Mollusca up to classes giving characteristic features and examples of each class. 7

(b) Describe water vascular system of Echinoderms. 5

4. Write short notes on the following : 3 × 4 = 12

(a) Skull types in Reptiles

(b) Cetaceans

(c) Cyclostomes

(d) Canal system of Poriferans

SECTION – B

35

(Animal Form and Function)

Note : Answer *three* questions including question No. 1 which is *compulsory*.

1. (a) State whether the following statements are *true* or *false* and give brief reasons in support of your answer : 2 × 4 = 8

(2)

- (i) Longer the loop of nephron more water and ions can be reabsorbed.
- (ii) The presynaptic cell transmits signals from specialized enlarged regions of its axon's branches, called synaptic cleft.
- (iii) Claspers are accessory sex organ found in birds and mammals.
- (iv) Motor neurons carry commands from the brain or spinal cord to muscles and glands.

(b) Define the following terms : 1 × 3 = 3

- (i) Suspension feeding
- (ii) Book lungs
- (iii) Sensory pathways

2. (a) With the help of well labelled diagram explain the structure and functions of mammalian kidney. Describe the role of protonephridia in the process of excretion. <https://www.bhustudy.com> 3 + 3
- (b) Describe the structure and function of gills in fishes. Explain the role of mammalian lung in gas exchange. 3 + 3

3. (a) Describe the patterns of nervous system in non-chordates with supporting well labelled diagram. 6

(3)

P. T. O.

(b) Give an account of the phonoreception in mammals. 6

4. Write short notes on the following : 3 × 4 = 12

- (a) Intracellular digestion
- (b) Parthenogenesis
- (c) Accessory sex organs in mammals

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