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B—117—2019

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (First Semester) EXAMINATION

MARCH/APRIL 2019

(CBCS/CGPA Pattern)

ZOOLOGY

Paper I

(Life and Diversity of Animals—I) (Non-Chordata)

(MCQ & Theory)

(Tuesday, 2-4-2019)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B. :—*
- (i) Attempt *All* questions
 - (ii) *All* questions carry equal marks.
 - (iii) Use separate OMR answer-sheet for Question No. 1.
 - (iv) One mark each for *correctly* answered Multiple Choice Question (MCQ).
 - (v) Negative marking system for wrong answer of MCQ is applicable.
 - (vi) Use black ball point pen to darken the circle of *correct* choice of answer of MCQ in OMR answer-sheet.
 - (vii) Darken only one circle for the answer of each MCQ.
 - (viii) Illustrate your answers with suitable labelled diagrams wherever necessary for question nos. 2, 3, 4.

MCQ

1. Mark the option for *correct* answer of each of the following MCQs in OMR answer-sheet : 10

- (i) Malaria is transmitted by the
- (a) Female culex mosquito (b) Male anopheles mosquito
(c) Female anopheles mosquito (d) Male culex mosquito

P.T.O.

- (ii) Spicules are structural characteristic feature of phylum
- (a) Protozoa (b) Porifera
(c) Annelida (d) Coelenterata
- (iii) The life cycle of *Taenia solium* is :
- (a) Monogenetic (b) Polygenetic
(c) Digenetic (d) None of these
- (iv) In annelida body organization is found.
- (a) Diploblastic (b) Triploblastic
(c) Both the above (d) None of these
- (v) The animals bearing numerous setae are kept in class :
- (a) Hirudinea (b) Oligochaeta
(c) Polychaeta (d) Archianoelida
- (vi) Which of the following is respiratory organ of crustaceans ?
- (a) Gills (b) Lungs
(c) General surface (d) None of these
- (vii) Head, foot, mantle is the diagnostic characteristic of :
- (a) Echinodermata (b) Mollusca
(c) Chordata (d) Arthropoda
- (viii) Which of the following type nervous system is characteristic feature of echinodermata ?
- (a) Nerve ring present (b) Ventral nerve cord is present
(c) Nerve ring absent (d) None of these
- (ix) Which one of the following is *not* applicable for echinodermata ?
- (a) Madreporite (b) Marine
(c) Podia (d) Bilateral symmetry

- (x) Hemichordata is :
- | | |
|---------------------|--------------------|
| (a) Ciliary feeders | (b) Mucous feeders |
| (c) Filter feeders | (d) None of these |

Theory

2. Describe sexual life cycle of *Plasmodium vivax* and add a note on symptoms of malaria. 10

Or

Write notes on :

- (a) Economic importance of Porifera
 (b) General characters of Hemichordata.

3. Describe life-cycle of *Ascaris lumbricoides*. 10

Or

Write notes on :

- (a) Structure of Ascaris
 (b) General characters of Mollusca.

4. Describe the respiratory system of cockroach. 10

Or

Write notes on :

- (a) General characters of Annelida
 (b) Gastropoda.