

2018

CBCS

1st Semester

ZOOLOGY

PAPER—C1T

(Honours)

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Non-Chordates—I**

1. Answer any five questions : 5×2
- (a) Why is *Euglena* called mixotroph ? 2
- (b) Name two free-living platyhelminths. 2
- (c) How are archaebacteria different from Eubacteria ? 2

(Turn Over)

(d) Write the location and function of choanocyte. 1+1

(e) Cite two examples of solitary corals. 2

(f) Differentiate between parasite and saprophyte. 2

(g) What do you mean by synonymy? Give an example. 2

(h) Why do we witness meiosis only in germ cells, whereas rest of the body cells (somatic cells) divide by mitosis? 2

2. Answer any four questions : 4×5

(a) (i) 'Metagenesis is not a true alternation of generation as seen in some plants'—Explain. 3

(ii) What are zooxanthelae? 2

(b) (i) What is hermaphroditism? 1

(ii) Highlight four major parasitic adaptations in helminths. 4

- (c) Diagrammatically illustrate the process of conjugation in *Paramecium*. 5
- (d) (i) State the salient features of kingdom Fungi. 3
- (ii) Differentiate between taxonomy and systematics. 2
- (e) (i) State in brief the theories explaining coral reef formation. 3
- (ii) Write a note on periodicity of microfilariae. 2
- (f) State the distinguishing features of Phylum Ctenophora. 5
- 3. Answer any one question :** 1×10
- (a) (i) Discuss the life cycle of any monogenetic parasite studied by you. 6
- (ii) Write a note on pseudocoelom. 3
- (iii) What is mosquirix? 1

(b) (i) What do you mean by Law of Priority? Illustrate the matter with suitable example.

(ii) Give an account of pathogenesis of filarial infection. 2 + 3 + 5

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