

Roll No.

91039

B.Sc. (Hons.) Chemistry
1st Semester w.e.f. 2012-13
Examination – November, 2018

ZOOLOGY-I OPTIONAL

Time : Three Hours] _____ [Maximum Marks : 40

Before answering the questions, candidates should ensure that they have
been supplied the correct and complete question paper. No complaint in
this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question
from each Unit. Question No. 1 is compulsory. All
questions carry equal marks.

1. (a) Define Nutrition in Protozoa.
- (b) Define Protogynous condition in Sycon.
- (c) Write intermediate host for Fasciola.
- (d) Write common name of *Ascaris lumbricoides*.
- (e) Define paurometaboly in insects.
- (f) Define sclerites in arthropods.
- (g) Write name of two sense organs of mollusca.
- (h) Name two genera of Echinodermata where more than five arms are present. $1 \times 8 = 8$

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UNIT – I

2. How the origin of metazoans takes place? Explain in detail. 8
3. Discuss canal system of Sycon. 8

UNIT – II

4. Explain life cycle of Fasciola with diagram. 8
5. (a) Is pathogenicity of *Ascaris* depends upon the severity of infection? Discuss. 4
- (b) Write note on capsule formation in *Ascaris*. 4

UNIT – III

6. Discuss the following with diagram in Annelids:
(a) Clitellum 4
(b) Setae 4
7. Discuss the following in Crustacean :
(a) Nauplius 4
(b) Zoea 4

UNIT – IV

8. Discuss the following in Mollusca :
(a) Feeding 4
(b) Torsion 4
9. Write note on the following :
(a) Madreporite in Echinodermata 4
(b) Tiedemann vessel in Echinodermata. 4

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