

PD- 170 CV-19
M.Sc. Zoology (First Semester)
Term End Examination Dec.-2020
Compulsory/Optional
Group-
Paper -

Name/ Title of Paper: Invertebrate structure and function, Minor Phyla
Time : Three Hours]

[Maximum Marks : 80
Minimum Marks : 29

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

1- Answer the following questions:

1X10

- (a) What is true coelom?
- (b) Rolling movement is found in which amoeba?
- (c) Which respiratory pigment is present in sepia & O-octopus?
- (d) Rectal gill present in-----.
- (e) The excretory organ of limulus is-----.
- (f) The Ventral nerve cord is double in which animal?
- (g) Kinetogenesis in the larval form of-----.
- (h) Which larva is produced by radia in winter seawater?
- (i) Thorny headed worms represent the phylum-----.
- (j) Lophophore Occupies the mantle cavity in-----.

Section-B

2- Answer the following questions.

2X5

- (a) Write the salient features of Rotifera.
- (b) Explain the structure of prototrochophore.
- (c) Explain the pulmonary respiration in mollusca.
- (d) Properties of haemoglobin.
- (e) Podobranch gill.

Section-C

Answer all questions:

15X4

3- Describe the general structure and function of Coelom.

Or

Give an account of amoeboid locomotion.

4- Describe the structure of trachea & tracheal respiration in insects.

Or

Describe the filter feeding in Mollusca and Echinoderm.

5- Describe the excretory organ and its function in higher invertebrates.

Or

What is Torsion? Describe the torsion in gastropoda. Add a note on its merits and demerits.

6- Why larval forms appear in the life cycle? Give an account of larval forms of crustacea.

Or

Give an account of general organization of rotifera.