



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

B.F.Sc. 1st Semester Examination 2021

PAPER—BFSC-108

TAXONOMY OF SHELLFISH

Full Marks : 70

Time : 3 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.

THEORY

1. Answer any *ten* questions.

10×2

- (a) Write the systematic position of *Pila globosa*.
- (b) Mention the structure and function of ctenidium.
- (c) What is Organ of Bojanus? Write about its function.
- (d) Mention the typical feature of the class Crustacea.

- (e) Mention the larval forms found in the class Crustacea.
- (f) What is gustatory organ? Mention its function.
- (g) What is ink gland? Where it is found?
- (h) Mention the structure and function of osphradium.
- (i) Mention the location and function of radula.
- (j) What is pleopod?
- (k) Define exopodite and endopodite.
- (l) What is uropod?
- (m) Mention the important features of subclass Malacostraca.
- (n) What is basis and coxa?
- (o) What is odontophore? Mention its function.

2. Answer any six questions. 6×5

- (a) State the distinctive features of bivalves and add a note on their distribution in Indian sub-continent.
- (b) Classify Cephalopods upto family with examples.
- (c) Classify Gastropods upto family with examples.
- (d) How Statocysts of Mollusc maintain body equilibrium?
- (e) Write six distinctive features of Devil fish and slug (Limax).

- (f) Classify sub-class Branchiopoda upto order with examples.
- (g) Classify sub-class Coepoda upto order with examples.
- (h) Classify sub-class Malacostraca upto order with examples.
- (i) Draw and describe the morphology of any lobster.
- (j) Draw and describe the morphology of freshwater mussel.

PRACTICAL

Answer any *two* questions. 2×10

1. Write down the systematic position, order, family, genus and species characters of the following specimen. 4×2.5
 - (a) *Macrobrachium rosenbergii*
 - (b) *Penaeus monodon*
 - (c) *Litopenaeus vannamei*
 - (d) *Thenus orientalis*

2. Write down the systematic position, order, family, genus and species characters of the following specimen. 4×2.5
 - (a) *Scylla serrata*
 - (b) *Crassostrea madrasensis*
 - (c) *Perna viridis*
 - (d) *Pinctada fucuta*

3. Draw and describe the structural of a freshwater prawn.

4. Draw and describe the structural of *Penaeus monodon*.

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