



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

2nd Semester Examination 2022

B.F.Sc.

PAPER—BFSC-207

ANATOMY AND BIOLOGY OF SHELLFISH

Full Marks : 50

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.

1. Answer any ten questions.

10×2

- (a) Define haemocoel. Where it is found?
- (b) State the functions of maxillepedes.
- (c) What are ostia?
- (d) Write down the functions of rostrum.

- (e) How many appendages are present on the ventral side of the prawn (*Macrobrachium rosenbergii*) ?
- (f) Write down the function of 1st and 2nd antenna in freshwater prawn.
- (g) Briefly explain cardiac stomach of prawn.
- (h) What are swimmeret ?
- (i) Define uropod. Where its is found ?
- (j) What is end-sac ?
- (k) Define labyrinth of fresh water prawn.
- (l) Define epipodites and state its functions.
- (m) Distinguish between prawn and shrimp.
- (n) Define anthrobranch. Where it is found ?
- (o) What is branchiostegite ?

2. Answer any six questions.

6×5

- (a) Draw and label the respiratory organs of fresh water prawn.
- (b) Write down the course of blood circulatory through the gills of any shell fish with diagram.
- (c) Discuss female reproductive system of any shrimp with diagram.
- (d) Write down the function of green gland.

- (e) Describe the excretory system of fresh water prawn with suitable diagram.
- (f) Describe briefly the different apertures of cephalothorax in prawn.
- (g) Describe digestive system of Mud crab with diagram.
- (h) Write down briefly the physiology of digestion of any shell fish.
- (i) Write down the digestive system of an oyster with suitable diagram.
- (j) Describe excretory system of fresh water mussel. 2+3
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