

2023

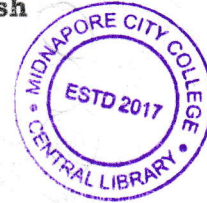
**BFSC 2nd Semester Examination**

**Anatomy and Biology of Shellfish**

PAPER — BFSC-207

Full Marks : 50

Time : 2 hours



*The figures in the right-hand margin indicate 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** from the following questions :  
2×10=20

(a) Differentiate between penaeid and non-penaeid prawn.

~~(b)~~ What is gonopore?

~~(c)~~ What do you mean by Statocyst openings?

~~(d)~~ Differentiate between male and female prawns.

/552

(Turn Over)

13 question attempt



( 2 )

- (e) Write the function of Rostrum.
- (f) What is Hepatopancreas?
- (g) Write down the different parts of alimentary canal in prawn.
- (h) Write down the function of 1st and 2nd antenna in prawn.
- (i) What is cardiac stomach in prawn?
- (j) Define Swimmerets.
- (k) What is Uropod?
- (l) Define Copulation.
- (m) What do you mean by Ostia?
- (n) What do you mean by Thoracic Ganglionic Mass?
- (o) Write the names of different types of gills found in prawn.

2. Answer any six from the following questions : 14

5×6=30

- (a) Discuss the life cycle of *Penaeus vannamei*.
- (b) Illustrate briefly the peripheral nerves seen in prawn.
- (c) Describe briefly the physiology of green glands of prawn.

/552

(Continued)

( 3 )

- (d) Write a note on the excretory system of a typical prawn with diagram.
- (e) Write down the mechanism of food and feeding in *Macrobrachium rosenbergii*.
- (f) Explain the digestive glands of *Penaeus monodon*.
- (g) Describe the structure and function of the gills in a prawn.
- (h) Briefly describe the digestion and absorption process in any shrimp.
- (i) What are the different body regions or section found in molluscs?
- (j) Differentiate between open and closed circulatory system with suitable example.

★ ★ ★

