



QP CODE: 25050765



25050765

Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

M.Sc Fishery Biology and Aquaculture

Core Courses - AQ030101 - SYSTEMATICS, CELL AND MOLECULAR BIOLOGY

2019 Admission Onwards

D4D2CE74

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the major Ichthyological works of Peter Artedi?
2. Write down the classification of Teleostei proposed by Greenwood.
3. Differentiate between Elopiform and Anguilliform fishes.
4. Describe the salient features of Siluriformes.
5. What are copepods?
6. What are microsatellites?
7. Give the general organization of a virus.
8. Chemiosmotic coupling theory.
9. Explain universality of genetic code.
10. How protein folding is achieved?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Write an account on Linnaean hierarchy.
12. Enumerate the salient features of saw sharks and saw fishes.
13. With suitable figures comment on the modifications of visceral arches in fishes.
14. Write a note on the larvae of Crustacea.
15. Give an account on dentition in bivalves.





16. Give a short note on cladistic analysis.
17. Add a note on cell motility.
18. Explain light reaction.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Write an account on the adaptive features of chondrichthyes.
20. Classify Decapoda giving examples of species of economic importance in each group.
21. Give an account on adaptive radiation in bivalves.
22. Explain chromosomal events taking place during meiosis.

(2×5=10 weightage)

