

Dr. V S. KRISHNA GOVERNMENT DEGREE COLLEGE AND PG COLLEGE (A),
VISAKHAPATNAM

Code: 23F15M22

B.Sc. FISHERY SCIENCE -II SEMESTER

PAPER: TAXONOMY AND BIOLOGY OF FIN FISH AND SHELL FISH

QUESTION PAPER

Time: 3 Hours

Max. Marks: 60

5×4=20 M

I. Answer any **FIVE** of the following:
Draw labeled diagrams wherever necessary.

1. Principles of Taxonomy.
2. Major taxa of inland and marine fishes.
3. Classification of fish food.
4. Food and feeding habits of shellfish species.
5. Maturation and spawning.
6. Methods of estimation of Fecundity.
7. Embryonic development.
8. Sex determination in shrimp.

II. Answer **ALL** of the following:

5×8=40 M

Draw labeled diagrams wherever necessary.

9. a) Discuss the morphological and meristic characteristics of taxonomy.
OR
b) Write about criteria for genetic and specific identification.
10. a) Write about Fish food preference and major fish feeding types.
OR
b) Discuss about feeding adaptations in fishes.
11. a) Write about Gut content analysis and its importance and limitations.
OR
b) Methods of age determination by using hard parts and by length frequency analysis.
Explain it in detail.
12. a) Discuss different modes of reproduction in finfish and shellfish.
OR
b) Write about general characteristics of eggs and larvae.
13. a) Give a detailed account on Parental care in finfish and shellfish species.
OR
b) Discuss on Group marking techniques.