

1. Introduction
  - 1.1 Importance of aquaculture in Nepal
  - 1.2 Potentialities and prospects of aquaculture
  - 1.3 Biology of major fresh water cultivated fishes
    - 1.3.1 Biology of cultivated fishes
    - 1.3.2 Biology of artificial propagation
  - 1.4 Fish culture system in Nepal
    - 1.4.1 Extensive system
    - 1.4.2 Semi Intensive system
    - 1.4.3 Intensive system
  - 1.5 Type of fish production system in Nepal
    - 1.5.1 Integrated aquaculture
    - 1.5.2 Rice-fish culture
    - 1.5.3 Cage and Enclosure fish culture
    - 1.5.4 Pond fish culture
    - 1.5.5 Aquaculture in marginal swamps/ ghools
    - 1.5.6 Open water stocking
  - 1.6 Design and construction of pond fish farm
    - 1.6.1 Integrated aquaculture
    - 1.6.2 Site selection and preparation
    - 1.6.3 Overall layout of the farm
    - 1.6.4 Leakage control and soil management
2. Fisheries Plan (five year and long term prospects plans)
3. Fish hatchery and Nursery Management Techniques
  - 3.1 Hatchery design and construction
  - 3.2 Nursery pond management
4. Fish breeding
  - 4.1 Artificial breeding
  - 4.2 Natural breeding
5. Fish health management
6. Fisheries project planning and management
7. Fisheries Extension and Training
8. Planning of on integrated fish farm
  - 8.1 Necessity, objectives and system of planning management
  - 8.2 Planning models
  - 8.3 Design and construction of on integrated fish farm
9. Environmental category of aquaculture in Nepal
  - 9.1 Action of wastes on the fish ponds
  - 9.2 Wastes as direct feed
  - 9.3 Wastes as indirect feed
10. Economically important indigenous fish species of Nepal (Cold water fishes) and its prospects for fisheries conservation
11. Fisheries law 2017 and amendment 2055
  - 11.1 Fish Nutrition
  - 11.2 Types of fish feed
  - 11.3 Feed formulations
  - 11.4 Natural and artificial feed

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12. Pond fertilization
  - 12.1 Types of fertilizers
  - 12.2 Use of fertilizers
13. Role and importance of fisheries in aquatic resources management to aid in poverty alleviation
14. Role of fisheries in food security
15. Role of women in Fisheries
16. Present status of fisheries development in Nepal
  - 16.1 Production
  - 16.2 Area coverage
  - 16.3 Contribution to GDP
17. Importance of aquatic resources for the poor
18. Fisheries policies
19. Fisheries Research
20. Bio-diversity
21. Limnological aspects
22. Aquaculture economics
23. Fish taxonomical studies and migration biology
24. Fish migration
25. Fish mythological and physiological biology

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**Model Questions**

1. Define taxonomy. How a fish is classified to a particular order, family and genus? 15
2. Give an account importance of water quality parameters in fish culture? 15
3. Give an account of design and construction of an integrated fish farm? 15
4. Describe in detail techniques used in induced breeding of fishes and discuss their significance? 15
5. Make an assessment of private sector fish breeders in Nepal and suggest its qualitative and quantitative improvements? 20
6. How application of fertilizers boost fish production? Discuss merits and demerits of different kind of fertilizers available in market. 20