R7282	Sub. Code
	461301

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2022

Third Semester

Oceanography and CAS

FISH AND FISHERIES

(CBCS – 2019 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

ALL questions carry equal marks.

1. Pelagic fisheries
2. Continental shelf
3. Define MSY
4. Indian mackerel
5. Fishing holidays
6. Trawl net
7. Catamaram
8. Bycatch
9. Overfishing
10. Mangrove

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write a short note on endangered fishery resources.

Or

(b) Briefly explain the in-situ conservation of fishery resources.

12. (a) Give a short note on length and weight relationship in fish.

Or

(b) What are the different types of feeding habits in fish?

13. (a) Describe the principles of fishery management.

Or

(b) Why fishing regulations are important in capture fisheries?

14. (a) What are different types of conventional craft in coastal fisheries.

Or

(b) Write short note on turtle excluder devices.

15. (a) Briefly explain the importance of biodiversity bill.

Or

(b) What is the role of extension in fisheries?

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

16. Write an essay on major fisheries resources of India.

17. Give a detailed account on biology of any two commercially important fishes.

18. Describe in details about the fishing regulation in management and conservation of fishery.

19. Elaborately discuss the conventional and modern craft and gears.

20. Illustrate the role of capture fisheries in alternate livelihood of fishermen.

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R7283	Sub. Code
	461302

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Third Semester

Oceanography and CAS

AQUACULTURE

(CBCS – 2019 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks

1. Define Mariculture.
2. What is live feed in aquaculture?
3. Define sea ranching.
4. Write notes on farm design.
5. Define Probiotic and Prebiotic.
6. What are the managements in nursery and farm aquaculture?
7. Define hatchery.
8. Note on fin fish.
9. Define Brood stock.
10. What are the principles and extension methods in aquaculture?

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Describe the significance of coastal aquaculture.

Or

(b) Give an account on status and economic problems in aquaculture.

12. (a) Brief notes on farm design and construction of aquaculture pond.

Or

(b) Write note on cages and raft methods in open sea farming.

13. (a) Describe feed and water quality on nursery and farm management.

Or

(b) Write a note on economic importance of seaweeds.

14. (a) Brief notes on Intensive Larval rearing.

Or

(b) Describe about hatchery production in fin fishes and crustaceans.

15. (a) Elaborate non-government agencies in fisheries development.

Or

(b) Comment on role of fisheries extension and development of aquaculture in India.

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

16. Define Aquaculture. Describe importance and socio economic problems of aquaculture

17. Write an essay on farm design construction and open sea farming in aquaculture.

18. Explain about disease management in nursery and farm management.

19. Describe in details about collection and maintenance of brood stock in hatchery management.

20. Describe in detail about principles and extension methods of aquaculture.

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R7284	Sub. Code
	461303

M.Sc. DEGREE EXAMINATION, NOVEMBER - 2022.

Third Semester

Oceanography and CAS

POST-HARVEST TECHNOLOGY

(CBCS – 2019 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. Rigor mortis
2. Insulated container
3. Autolysis
4. Histamine
5. Packaging
6. Shelf life
7. Canning
8. Smoking
9. USFDA
10. Chemical indices

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write a note on board handling of fishery products.

Or

(b) What are the basic principles of refrigerated preservation?

12. (a) Briefly explain the post mortem changes in sea food.

Or

(b) How the environmental factors affecting the quality of fish.

13. (a) Describes the different methods of freezing.

Or

(b) Write a short note on importance of sanitation in processing plants.

14. (a) Give a brief account on packaging materials.

Or

(b) What are the standard protocol followed in seafood packaging?

15. (a) How will you assess the organoleptic changes in shrimp quality?

Or

(b) What are the good manufacturing practices in processing industry?

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

16. Write an essay on the recent advances in post harvest techniques.

17. Give a detailed account on chemical and structural post mortem changes in fish.

18. Describes the various method of processing the crustaceans and cephalopods.

19. Write a detailed account on packaging standard for domestic and international trade.

20. Elaborately discuss the quality assessment methods in fish and fishery products.

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R7285	Sub. Code
	461504

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2022

Third Semester

Oceanography and CAS

COASTAL DISASTER MANAGEMENT

(CBCS – 2019 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. DIA
2. Tsunami
3. Ocean acidification
4. CFC
5. Deep water horizon
6. UWFCCC
7. Erosion
8. Toranodo
9. Sea Surge
10. Sesmic Seawaves

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

All questions carry equal marks

11. (a) Describe the types of Natural Hazards.

Or

(b) Explain the vulnerability of Natural Hazards.

12. (a) What are the threats in coastal zone and ecosystem?

Or

(b) How can predict the shoreline change in future?

13. (a) Explain the impact of habitat loss.

Or

(b) Write short note on Tsunami warning systems.

14. (a) Explain the causes for sea level rise.

Or

(b) How EEZ affect the coastal fisheries?

15. (a) Describe the major components of meteorology.

Or

(b) Explain the prevention of Seismic activities.

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

All questions carry equals marks

16. Explain the importance of mangroves and their role in environmental protection.

17. Explain the conservation strategies of coastal resource management.

18. Describe the ocean acidification and its effects on marine environment.

19. Elaborate the short term impact of climatic hazards in developing country.

20. Describe the role of international agencies in ocean management.

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