

B. Sc. – III General Science (Semester –V) Examination
Subject – Fisheries
BZFT -501, Fishery Biology – II & Aquaculture Management
Subject code – 17105

Question Bank

- Instructions:** 1. All questions are compulsory.
2. Figures to right indicates full marks
3. Draw neat-labelled diagram wherever necessary.
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Q1. Define following terms / Answer in one sentence

- 1) Location of male genital aperture in prawn
- 2) Total number of segments in prawn
- 3) Pallial line in bivalve
- 4) Common name for *Penaeus monodon*.
- 5) Organ of equilibrium in prawn
- 6) Which species of prawn is mostly preferred for prawn culture?
- 7) State number of appendages in abdomen of prawn.
- 8) How many chambers are present in the heart of bivalve?
- 9) Which respiratory pigment is present in the blood plasma of bivalve?
- 10) Mention the dimension of nursery pond.
- 11) Where is female genital aperture located in prawn?
- 12) What is *Penaeus indicus* is commonly called as?
- 13) Which is the largest estuarine species of edible oyster?
- 14) What is the dimension of rearing pond?
- 15) Which organ maintains balance in prawn?
- 16) Name the larva of bivalve.
- 17) What is hinge line?
- 18) Size of hatching pond.
- 19) Organ of equilibrium in bivalve.
- 20) Dimension of nursery pond.
- 21) Name the cephalic appendages in prawn.
- 22) Name the thoracic appendages in prawn.
- 23) Name the abdominal appendages in prawn.
- 24) What are biramous appendages?
- 25) How many pairs of gills are present in prawn?

Q2. Attempt any two of the following

- 1) Describe methods of gut content analysis
- 2) Describe nervous system of prawn.
- 3) Describe sewage fed fisheries
- 4) Describe the digestive system of prawn.
- 5) Describe nervous system of bivalve.
- 6) Describe rice cum fish culture.
- 7) Describe the nutritional requirement of cultivable fishes.
- 8) Describe digestive system of bivalve & add a note on food & feeding
- 9) Describe fish farming with livestock.
- 10) Describe paddy cum fish culture.
- 11) Describe the Pleopods of prawn.
- 12) Describe the walking legs of prawn.
- 13) Describe the structure of gill in prawn.
- 14) Describe the reproductive system of bivalve and add a note on its life cycle.
- 15) Describe respiratory system of prawn.

Q3. Attempt any four of the following

- 1) Male reproductive system of prawn
- 2) Glochidium larva of bivalve.
- 3) Water quality of sewage.
- 4) Statocyst of Prawn
- 5) Open transport system for fish seed.
- 6) Excretory system of bivalve.
- 7) Osphradium of bivalve.
- 8) Control of Predatory fishes.
- 9) Types of blooms.
- 10) Supplementary feeding in fish farm.
- 11) Female reproductive system of prawn.
- 12) Pleopods of prawn
- 13) Eye of prawn
- 14) Cold water fisheries
- 15) Treatment of sewage
- 16) Pearl oyster culture
- 17) Liming of fish pond
- 18) Types of weeds

- 19) Rotational type of rice cum fish culture
- 20) Sense organs of bivalve
- 21) Heart of prawn
- 22) Roll of Nutrients
- 23) Cultivable species in rice field
- 24) Culture of air breathing fishes
- 25) Systematic position of bivalve
- 26) Systematic position of prawn
- 27) Edible oyster culture
- 28) Fish farming with duck
- 29) Fish farming with pig
- 30) Fish farming with cattles

B. Sc. – III General Science (Semester – V) Examination
Subject – Fisheries
BZFT- 502 Fish Physiology II, Fish Breeding ,Fish seed production and transportation.

QUESTION BANK

Q1. Define following terms / Answer in one sentence

1. Which are the various types of fish byproducts.
2. Which natural fibers are used for net making
3. Which are the important minerals present in fish meal?
4. Study of fish disease is called as?
5. *Carassius auratus* is commonly called as?
6. Induced breeding technique is used in?
7. Nets used to collect Fertilized eggs of fishes
8. Define the term Oviparous fishes
9. What are the different properties of fibers used in fishing gear technology.
10. What is Numbering system
11. What is mean by induced breeding.
12. Which are the various methods of fish preservation.
13. What is the Principles of mending
14. What is the Pathological procedure for diagnosis of fish
15. *Poicillia reticulata* is commonly called as?
16. Pituitary gland is also known as?
17. Hormones secreted by pituitary gland in fishes.
18. Which hormone regulates the osmoregulation in fish ?
19. Define the term Viviparous fishes.
20. Which fibers used in preparation of gears.
21. Define Brood fish.
22. CIFE stands for ?
23. What is the Scientific name of sword tail fish .
24. Thyrotrops are found in?
25. *Hypothalmychths molotrix* is commonly called as?

Q2. Long question

1. Describe signs of sickness, effect and control measures of bacterial diseases.
2. Describe post mortem changes in fish with reference to chemical spoilage
3. What is fish spoilage? Describe in detail post mortem changes in fish spoilages.
4. Describe pathological procedure for diagnosis of fish diseases.
5. Describe etiology symptoms and control measures of protozoan diseases.
6. Describe etiology, symptoms and control measures of bacterial diseases.
7. Describe Fish Seed resources and their transport
8. Explain Fertilization of eggs by stripping.
9. Describe Bundh breeding of fishes.
10. Describe Fertilization of eggs by stripping.
11. Explain the breeding techniques in detail.
12. Describe Feed additives -attractants, growth stimulants and probiotics and binders
13. Explain in detail breeding of major carp
14. Describe in detail endocrine glands in fishes
15. Explain transport of fishes in detail.
16. Explain Induced breeding .
17. Describe the role of Endocrine glands its hormones and their regulation

B. Sc. – III General Science (Semester – V) Examination
Subject – Fisheries
BZFT- 502 Fish Physiology II, Fish Breeding ,Fish seed production and transportation.

QUESTION BANK

Q1. Define following terms / Answer in one sentence

26. Which are the various types of fish byproducts.
27. Which natural fibers are used for net making
28. Which are the important minerals present in fish meal?
29. Study of fish disease is called as?
30. *Carassius auratus* is commonly called as?
31. Induced breeding technique is used in?
32. Nets used to collect Fertilized eggs of fishes
33. Define the term Oviparous fishes
34. What are the different properties of fibers used in fishing gear technology.
35. What is Numbering system
36. What is mean by induced breeding.
37. Which are the various methods of fish preservation.
38. What is the Principles of mending
39. What is the Pathological procedure for diagnosis of fish
40. *Poicillia reticulata* is commonly called as?
41. Pituitary gland is also known as?
42. Hormones secreted by pituitary gland in fishes.
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44. Define the term Viviparous fishes.
45. Which fibers used in preparation of gears.
46. Define Brood fish.
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Q2. Long question

18. Describe signs of sickness, effect and control measures of bacterial diseases.
19. Describe post mortem changes in fish with reference to chemical spoilage
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22. Describe etiology symptoms and control measures of protozoan diseases.
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25. Explain Fertilization of eggs by stripping.
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27. Describe Fertilization of eggs by stripping.
28. Explain the breeding techniques in detail.
29. Describe Feed additives -attractants, growth stimulants and probiotics and binders
30. Explain in detail breeding of major carp
31. Describe in detail endocrine glands in fishes
32. Explain transport of fishes in detail.
33. Explain Induced breeding .
34. Describe the role of Endocrine glands its hormones and their regulation

Q3. Short note

1. Pituitary gland
2. Live feed.
3. Material and numbering system used in fishing gears.
4. Ecological and hormonal influence maturation of gonads and spawning
5. Live bearers.
6. Net making and add a note on purse sein.
7. hapas
8. Oviparous species
9. Livebearers species
10. Transport of fish seeds
11. Feed Resources: Nutritional value of feed ingredients and live feed
12. Fish seed from river, hapas, hatcheries
13. Endocrine glands hormones and their regulation
14. Transport of fingerlings and brood fishes.
15. Nutritional value of feed ingredients and live feed.
16. Feed additives -attractants,
17. Oviparous fishes
18. Pituitary gland

19. Thyroid gland of fishes
20. Importance of natural food
21. Probiotics
22. Binders
23. Growth stimulants
24. Live bearers.
25. Natural breeding
26. Hepatopancreas in fishes
27. Thyroid gland
28. Bundh breeding of fishes.
29. Transport of fish seeds.
30. Factors influencing spawning

B. Sc. – III General Science (Semester – VI) Examination
Subject – Fisheries
BZFT -601, Marine Ecology and Fisheries
Subject code – 17110

Question Bank

- Instructions:**
- 1. All questions are compulsory.**
 - 2. Figures to right indicates full marks**
 - 3. Draw neat-labelled diagram wherever necessary**
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Q1. Define following terms / Answer in one sentence

- 1) Name the instrument used to sample sediments from water.
- 2) What is Spring tide?
- 3) Define - Eulittoral zone
- 4) Define – Euryhaline organisms
- 5) What is the use of Secchi disc?
- 6) Mention the use of reversing thermometer
- 7) What is Secchi disc?
- 8) Define – Stenohaline organisms
- 9) Define- Estuary
- 10) Define - Neritic zone
- 11) Define - Oceanic zone
- 12) Define – Brackish waters
- 13) Define – Stenohaline organisms.
- 14) What is the use of Grab?
- 15) What is the use of reversing thermometer?

Q2. Attempt any two of the following

- 1) Describe chemical parameters of marine habitat.
- 2) Describe characteristics and fauna of rocky shore
- 3) Describe classification, food feeding, morphology and economic importance of Mackerel.
- 4) Describe physical parameters of marine habitat.
- 5) Describe characteristic and fauna of sandy shore.

- 6) Describe bionomics, food feeding and economic importance of Harpodon.
- 7) Describe classification of marine habitat.
- 8) Describe different types of estuaries.
- 9) Describe bionomics, food feeding and economic importance of Pomfret.
- 10) Describe characteristic and fauna of muddy shore.
- 11) Describe physical parameters of marine habitat.
- 12) Describe bionomics, food feeding and economic importance of
- 13) Sardine.
- 14) Describe feeding methods and scheduling.
- 15) Describe feed formulation and processing.

Q3. Attempt any four of the following

- 1) Water Sampling bottle
- 2) Dredges
- 3) Permanent fauna of brackish water
- 4) Muddy shore
- 5) Economic importance of Sardine
- 6) Explain pelagic zone
- 7) Reversing and Non reversing thermometer
- 8) Temporary fauna of estuary.
- 9) Fauna of rocky shore
- 10) Economic importance of Pomfret
- 11) Crustacean fisheries
- 12) Plankton Net
- 13) Secchi disc
- 14) Characteristics of estuary
- 15) Fauna of rocky shore
- 16) Molluscan fisheries
- 17) Benthic region of sea
- 18) Physical parameters of estuary
- 19) Chemical parameters of estuary
- 20) Grabs

- 21) Bar- built estuaries
- 22) Salt wedge estuaries
- 23) Partially mixed estuaries
- 24) Mackerel
- 25) Sardine
- 26) Bombay duck
- 27) Pomfret
- 28) Molluscan fisheries
- 29) Culture of Tilapia
- 30) Supplementary feed

B. Sc. – III (Semester – VI) End Semester Examination
Subject – Fisheries
BZFT -602, (Fish Pathology and Fishery Technology)

Question Bank

Q1. One sentence questions

1. Columnaris disease is caused by:
2. What is mean by Deep freezing.
3. What are the causes of helminth parasites?
4. Enlist few fish byproducts.
5. What is the treatment for fish leech?
6. Fish lause is also called as?
7. Which prevent fish spoilage, rays used in radiation treatment?
8. Cotton mouth disease is caused by?
9. Define pathology.
10. Define leukemia
11. What is the use of bend?
12. Define fish marketing
13. What are the causes of furunculosis?
14. What are the symptoms of Dropsy?
15. Foul smelling yellowish fluid in visceral cavity is symptom of?
16. What are the causes of Dropsy
17. State the steps of long duration preservation
18. Enlist few Protozoan diseases in fishes.
19. Anchor worm is also called as?
20. What are the reasons of fish spoilage?
21. White spot disease is also called as?
22. Enlist the type of actions in fish spoilage
23. What is monofilament yarn?
24. Define Hitch
25. IPN stands for?
26. What are the sources of vegetable fibre material?
27. What is the basis of yarn numbering system?
28. Define rigor mortis

Q2. Long answer questions

1. Explain various marketing channel.
2. Describe symptoms, and treatment for worm diseases.
3. FFDA organization
4. Describe various materials used in fishing gears.
5. Describe the Criteria for freshness of fish.

6. Describe various fish by products
7. Describe the sources of Fish protein concentrate.
8. Describe different knots used in gear making.
9. Properties and numbering system of gear making fibres
10. Explain Helminth parasites.
11. Describe properties of gear making fibres.
12. Describe Fish preservation and processing techniques Principles and methods.
13. Describe in detail Epizootic ulcerative syndrome(EUS).
14. Describe risk of fish marketing.
15. Describe various methods of fish preservation
16. Describe Co-operative society in aquaculture (public sector in aquaculture).
17. Explain in brief control of parasitic fish disease.
18. Describe method for preparation of Fish manure .
19. Fish preservation and processing techniques
20. Explain the principles of mending.
21. knots, hitches and bends
22. Describe fish marketing channel
23. Describe Fish products and by-products in details.
24. Describe Fish preservation and processing techniques Principles and methods.
25. Describe FFDA organization in detail.

Q3. Short Notes

- 1) Rigor mortis
- 2) Fish Marketing

- 3) Bacterial spoilage
- 4) Materials used in fishing gears
- 5) Net making
- 6) Fish byproducts
- 7) Epizootic ulcerative syndrome(EUS)
- 8) Canning
- 9) Fish oil
- 10) risk of fish marketing.
- 11) Tail rot
- 12) Symptoms of dropsy
- 13) Protozoan diseases
- 14) Fish Glue and isinglass
- 15) FFDA organization
- 16) white spot disease
- 17) Fish as a food
- 18) Aetiology
- 19) Synthetic fibres
- 20) Yarn numbering system
- 21) Mounting of webbing
- 22) Worm disease
- 23) Fish liver oil
- 24) Types of Co-operative societies in aquaculture
- 25) Salting technique of fish preservation
- 26) Fungal disease in fishes
- 27) Causes of fish spoilage
- 28) Fish sausage and soup
- 29) Fungal diseases
- 30) FFDA organization