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SUBJECT CODE NO: - F-6265
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem-IV) (Zoology)
Examination December/January-2022-23
Elective Papers-III Fishery Science-II 531

[Time: 3:00 Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

N. B

- 1) Q.1 is compulsory.
- 2) Solve any five questions from Section B

Section-A

Q1 Attempt the following multiple choice questions

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- 1) Which among the following organisms is considered as an indicator species for the abundance of oil sardine?
 - A) Skeleionema costa turn
 - B) Fragilaria oceanica
 - C) Brachionus plicatilis
 - D) Artemia salina
- 2) Which of the following fishes uses the sticky mucus secreted its skin for preparing nests for egg laying?
 - A) Gasterosteus
 - B) Trichogaster
 - C) Protopterus
 - D) Lepidopterus
- 3) Which among the following organisms is considered as an indicator species for the abundance of oil sardine?
 - A) Skeleinema costa turn
 - B) Fragilaria oceanica
 - C) Brachionus plicatilis
 - D) Artemia salina

- 4) Fish belongs to the phylum:
 - A) Chordata
 - B) Gnathostomata
 - C) Vertebrata
 - D) Teleostei
- 5) For keeping 1 cm of fish, the surface area of aquarium should be:
 - A) 10 cm²
 - B) 20 cm²
 - C) 30 cm²
 - D) 40 cm²
- 6) Spawning mops are used for breeding of:
 - A) Fighter fish
 - B) Gold fish
 - C) Angel fish
 - D) None of these
- 7) Profitability of a farm not dependent on:
 - A) Productivity
 - B) Farm price
 - C) Cost of production
 - D) Farm area
- 8) Scientific name of yellowtail catfish:
 - A) *Heteropneustes fossilis*
 - B) *Pangasius hypophthalmus*
 - C) *Pangasius pangasius*
 - D) *Ictalurus punctatu*
- 9) In fish population studies indicates-
 - A) Survival rate
 - B) Mortality rate
 - C) Growth rate
 - D) Recruitment

10) Recommended level of chlorination of process water in the fish processing plant

is-

- A) 10 ppm
- B) 50 ppm
- C) 100 ppm
- D) 150 ppm

Section-B

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| Q2 | Describe Digestive system and physiology of digestion in fishes. | 12 |
| Q3 | Explain bioluminescence and physiology of light production in fishes. | 12 |
| Q4 | Describe types of scales and fins in fishes. | 12 |
| Q5 | Explain structure and function of Pituitary gland in fishes. | 12 |
| Q6 | Write the classification of hormones and function of hormones in fishes. | 12 |
| Q7 | Write brief account of central nervous system and cranial system in fishes. | 12 |
| Q8 | Describe coloration in fishes & add a note physiology of coloration. | 12 |