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SUBJECT CODE NO: - S-6265
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem –IV) (Zoology (Old))
Examination May / June - 2023
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. Part 'A' is compulsory.
2. Attempt any five questions from Part B.
3. Draw a neat labelled diagram wherever necessary.

PART A

Q1 Multiple choice questions.

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- 1) The fish as a food is a major source of
 - a) Fat
 - b) Protein
 - c) Iron
 - d) Carbohydrate
- 2) ----- is the most common measure of reproductive potential in fishes.
 - a) Fecundity
 - b) Ovulation
 - c) Fertility
 - d) Reproductive effort
- 3) Which component detect sound in fishes.
 - a) Brain
 - b) olfactory receptors
 - c) lateral line
 - d) cranial nerves
- 4) Oculomotor muscles are effectively attached to
 - a) Jaws
 - b) eyes
 - c) gill arches
 - d) fin rays
- 5) In typical carnivorous fishes gastric acidity of ----- range is present in the stomach.
 - a) 2.4 to 3.6
 - b) 1.4 to 2.3
 - c) 3.5 to 4.5
 - d) 4.5 to 5.5
- 6) ----- pigments in fish skin are responsible for bright red, yellow and green colours to fishes.
 - a) Melanin
 - b) Purines
 - c) Guanines
 - d) Caratenoid
- 7) ----- is the main route of blood transport from the gills to the body of fish.
 - a) Ventral aorta
 - b) Efferent branchial artery
 - c) Dorsal aorta
 - d) Afferent branchial artery
- 8) Fish living in warmer water generally have ----- oxygen consumption rate than these in cooler water.
 - a) Higher
 - b) lower
 - c) minimum
 - d) very low
- 9) ----- is a process of all female species.
 - a) Oogenesis
 - b) Vitellogenesis
 - c) Hybsidogenesis
 - d) Hetesosi

- 10) The principal blood plasma protein ----- of fish controls osmotic pressure.
a) Lipoprotein b) Albumin c) Globulins d) Fibrinogen

PART B

- Q2 Explain physiology of digestion in fishes. 12
- Q3 Write an account on different types of adaptation in hill stream and deepsea fishes. 12
- Q4 What is migration? Describe different types of migration in fishes. 12
- Q5 Describe cranial nerves system in fishes. 12
- Q6 What is hormone? Describe classification and function of hormone. 12
- Q7 Describe structure of pituitary gland and explain hormone secreted by adenohipophyses. 12
- Q8 Explain physiology of colouration in fishes 12