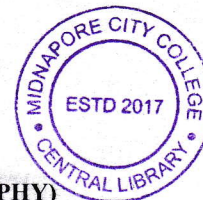


PG CBCS
M.Sc. Semester-III Examination, 2022
ZOOLOGY
 PAPER: ZOO 303A
(FISH TAXONOMY & BIOLOGY AND OCEANOGRAPHY)



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

UNIT: ZOO 303A.1
FISH TAXONOMY & BIOLOGY

GROUP-A

- 1. Answer any TWO from the following questions: 2×2=4**
- Define homing.
 - What are the principles of priority?
 - What is the taxonomic classification of fish? Name (scientific and common) two commercially important shell fish.
 - Define Gonadosomatic index and fecundity.

GROUP-B

- 2. Answer any TWO from the following questions: 2×4=8**
- What are the factors affecting fish migration?
 - Write a note on neurohypophysis of fish.
 - What do you mean by parthenogenesis? Give two examples of fishes having parthenogenetic mode of reproduction. 2+2
 - What is fish endocrine gland? Write down the function of endocrine gland in fish.

GROUP-C

- 3. Answer any ONE from the following questions: 1×8=8**
- What are the fat soluble vitamins? Write down the functions of those vitamins in fish health. 4+4
 - What is fish marking and tagging? Why mark or tag the fish? Describe the types of fish marking and tagging. 1+3+4

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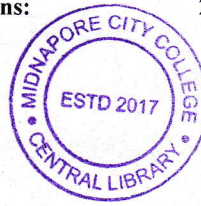
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UNIT: ZOO 303A.2
OCEANOGRAPHY

GROUP-A

4. Answer any TWO from the following questions: 2×2=4

- a) What is neretic zone?
- b) What is global conveyer belt?
- c) What is thermocline?
- d) Comment on the density of sea water.



GROUP-B

5. Answer any TWO from the following questions: 2×4=8

- a) What is thermohaline circulation? Comment on upwelling. 2+2
- b) Briefly discuss about the zonations of sea depending on the salinity.
- c) Give a short note on sea bed.
- d) What are EEZ and CEZ? What is weathering? 2+2

GROUP-C

6. Answer any ONE from the following questions: 1×8=8

- a) Give a detailed classification of the sea zonations depending upon depth.
What is bioluminescence? 6+2
- b) What is oil-spill? Discuss the impacts of oil spill on oceanic environments. 2+6
