2022

Zoology

[P.G.]

(CBCS)

(M.Sc. Third Semester End Examination-2022)

PAPER-303

(Fishery Special)

Full Marks:40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

### Group-A

# [Ichthyotaxunomy & Biology]

1. Answer any two questions of the following:

2x2 = 4

- a) Differentiate between monogenetic and digenetic trenatodes.
- b) Write name of two potamodromus fish.
- c) Name two commercially important estuarine fishes.
- d) Define penderal index.

2. Answer any two questions of the following:

2x4 = 8

a) Write briefly the history fo Indian fishery.

- b) Write a brief note on fish disease caused by protozoan ciliates.
- c) What is Hardy's square method?
- d) Write about list caused best buy technique.

### 3. Answer any one question of the following:

1x8 = 8

a) What is FCR, FCE, PER and NPK? Calculate the PER and FCR value and comment on your result when No of fishes - 20, Weight of each fish 13.5 gm (initial) and 16.5 gm (Final).

Duration of experimental trial -2weeks, Feed given @ 6% body Wt.

Protein percentage in the feed 40%

4+4

b) Write on any bacterial disease of fresh water fish mentioning causative agent, symptoms and treatment.

### Group-B

# [Oceanography]

#### 4. Answer any two questions of the following:

2x2 = 4

- a) Write about sources of oceanic pollution.
- b) Define plankton and nekton with example
- c) 'Ocean are reservoir of one green house gas' explain it.
- d) What do you mean by thermocline and halocline.

#### 5. Answer any two questions of the following:

2x4 = 8

- a) What is upwelling? Write its importance in fishery.
- b) Write about the problem due to oceanic pollution and its remedial measures.
- c) What is dendensity of water? Write its relationship with salinity, temperature and pressure.
- d) Write down the chemistry of water molecule

# 6. Answer any one question of the following:

1x8 = 8

- a) Write about the zonaration of sea with the help of diagram and description.
- b) Short note on i) Nutrient cycle in ocean
- ii) Daily vertical migration of zoo plankton.

4+4