

2015

M.Sc.

3rd Semester Examination

FISHERIES SCIENCE

PAPER—FSC-304

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Unit-I

(Freshwater Aquaculture)

1. Answer in brief any two of the following : 2×2
- (a) What is sewage ? Enlist different components present in industrial sewage.
- (b) State the advantages of Race way culture.

(Turn Over)

- (c) Write name of two frogs having economic importance.
- (d) Differentiate between Monoculture and Polyculture.

2. Answer any *two* of the following : 2×4

- (a) How would you develop colour and quality of cultured pearl ?
- (b) Compare cage and pen culture.
- (c) Briefly explain the current and future scope & research in Tilapia culture.
- (d) Elucidate the breeding and culture process of Pabda.

3. Answer any *one* of the following : 1×8

- (a) Define aquaculture. Briefly discuss the objective of aquaculture. Add a note on potentialities of aquaculture in India. 2+3+3
- (b) What is Intergrated Multi Trophic Aquaculture (IMTA) ? Write a note on principles and certification of organic aquaculture. 2+3+3

Unit-II**(Salinewater Aquaculture)**

4. Answer any *two* of the following questions : 2×2
- (a) State the feeding behaviour of *Lates Calcarifer*.
 - (b) Mention the favourable water quality parameters for pearls culture in India.
 - (c) Enlist four important fish species available in brackish water environment of West Bengal.
 - (d) State the scientific name and common name of two crabs and two lobsters.
5. Answer any *two* of the following questions : 2×4
- (a) Discuss the feeding management practices of *Penaeus monodon* culture in coastal environment.
 - (b) State the guidelines for the import and culture of *Litopeneus Vennemei* in Indian environment.
 - (c) Discuss 'Bhasabandha' fishery in West Bengal.
 - (d) Enumerate the prospects & problems of mariculture in India.

6. Answer any *one* question of the following questions :

1×8

- (a) (i) Define CRZ ;
(ii) Mention different zones of CRZ ;
(iii) Discuss important rules and regulation in respect to coastal aquaculture.

$1\frac{1}{2}+3+3\frac{1}{2}$

- (b) (i) Discuss Sea-weed Culture in marine environment.
(ii) State the activities of Coastal Aquaculture Authority in India.

4+4

[Internal Assessment : 10 Marks]
