6/H–36 (vii) (Syllabus–2015)

2018

(April)

FISHERY SCIENCE

(Honours)

Paper : VIIA

(Advance Aquaculture)

Marks : 56

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 and *any* **four** from the rest

1. Write short notes on any *three* of the following : 4×3=12

   (a) Ecology of brackish water bodies

   (b) Game fishes of India

   (c) Seaweed fisheries of India

   (d) Breeding of live-bearer ornamental fishes

   (e) Importance of sewage water in fish farming

(Turn Over)

2. What are the characteristics of ornamental fish? Describe the important steps of aquarium setting. Write the prospects of ornamental fish farming in N-E India. 3+4+4=11

3. *(a)* What are the differences between sewage and sludge? 3

   (b) Mention the physico-chemical and biological characteristics of sewage water bodies. 4

   (c) Discuss the basic principles of sewage treatment for fish farming. 4

4. *(a)* Discuss the different types of feed ingredients used in fish culture. 4

   (b) Give an account on the artificial balanced feed composition and formulation. 7

5. *(a)* Write in detail about the procedure of seed production of any one important air-breathing fish species of India. 6

   (b) Discuss the scope of air-breathing fish culture in North-East India. 5

6. What do you understand by race ways? What type of topography is required to adopt race way system? Describe the design and management of trout farming. 2+3+6=11

(Continued)

7. What are the differences between mariculture and brackish water aquaculture? Describe briefly the present prawn and clam resources of India. 4+7=11

8. Write short notes on any *two* of the following : 5½×2=11

   (a) Larvicidal fishes

   (b) Pearl culture

   (c) MPEDA and its activities

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