

2008

M.Sc.

1st Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-1004

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.

(Physiology of Finfish and Shellfishes)

1. Answer any four of the following : 2×4
- (a) What do you mean by accessory respiratory organ ?
 - (b) Enlist the endocrine gland found in finfishes.
 - (c) Podobranch gills.
 - (d) What are major natural foods of fishes ?
 - (e) Define venous heart.
 - (f) What do you mean by parasitic fishes ?
 - (g) What is osmoconformer ?
 - (h) Define Poly-Spermy.

(Turn Over)

2. Answer any *four* of the following : 4×4
- (a) Respiratory mechanism of freshwater prawn.
 - (b) Structure of gills on bony fishes.
 - (c) Modifications of mouthparts in fish depending on their feeding habit.
 - (d) Hematopoiesis.
 - (e) Distinctive features of fish blood vessels.
 - (f) Fat metabolism of fishes.
 - (g) Osmoregulation process of anadromous fishes.
 - (h) Discoidal mesoblastic cleavage in Zebra fish.
3. Answer any *two* of the following : 8×2
- (a) Accessory Respiratory structure of *Heteropneuster fossils* & *Anabas testudineus* with suitable illustration.
 - (b) Important organs of osmoregulation in fishes. — describe in brief.
 - (c) Discuss the developmental stages of prawn.
 - (d) Briefly describe the associated digestive gland of fishes.
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