

**2017**

**AQUACULTURE MANAGEMENT**

**[ Honours ]**

**(CBCS)**

**[ First Semester ]**

**PAPER.— C1T**

*Full Marks : 40*

*Time : 2 hours*

*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*

- 1. Answer briefly any five of the following questions : 2 × 5**

**(a) Write down important characteristics of a typical vertebrae of a fish.**

*( Turn Over )*

(b) Who is regarded as the father of Taxonomy ?  
Write name of one book written by him.

(c) What is pyloric caeca ? State its function.

(d) Name ( common and scientific ) four commercially important mollusc available in India.

(e) Define gill raker of a fish with diagram.

(f) What is tagging ? Mention its significance.

(g) Define Gonado Somatic Index (GSI). State its importance.

(h) What is phylogenetic tree ? State its usefulness

2. Answer any *four* questions from the following :

(a) Discuss the morphometric and meristic characteristics of a fish.  $5 \times 4$

(b) How to study the growth of a fish using scale and autolith ?

- (c) State about the life cycle of *Penaeus monodon*.
- (d) Describe the accessory respiratory organ (ARO) of *Anabas testudineus*.
- (e) Define fecundity. How to estimate the total fecundity of a fish ?
- (f) Discuss about food and feeding habit of Indian major carps.

3. Answer any *one* questions of the following :

- (a) (i) Why fish heart is called venous heart ? 10 × 1
- (ii) Discuss in detail the efferent arterial system of any teleost fish.
- (iii) State about the respiratory system of *Macrobrachium rosenbergii*. 2 + 4 + 4
- (b) (i) Define binomial nomenclature.
- (ii) State holotype and paratype with example.

- (iii) Discuss Law of priority.
- (iv) Mention certain important characteristics of crustacea. Give two examples.
- (v) Write order name of Torpedo. State its important characters.     2 + 2 + 2 + 2 + 2
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