## **BFSC 3rd Semester Examination**

Aquaculture Engineering

PAPER - BFSC-309

Full Marks: 50

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 any ten questions from the following :

What is datum and benchmark?

What do you mean by chain survey?

- (c) Mention the names of instrument used in compass survey method.
- (d) What do you mean by contour interval? /879

(Turn Over)

(MSL).

g) Mention different types of levelling methods.

(h) What do you mean by longitudinal slope and cross slope?

What is pond dike?

Define seepage.

(k) How do you distinguish between excavated ponds and embankment ponds?

(culture.) Classify aquaculture ponds based on the

(m) What do you mean by berm?

(n) What is clay puddling?

What is sluice gate?

(p) Define biological filtration system.

Write a short note on trickling filter.

(r) Mention the name of different types of aerators used in aqua farm.

2. Answer any six questions from the following: 5×6=30

(a) Briefly elaborate the selection of a suitable site for a freshwater aqua farm. 5

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Write down the pre-stocking management procedure of a dry type nursery pond. 5

(c) Write a note on soil erosion in pond dike and its effective control measures.

brackish water fish farms. 5

(e) What do you mean by water control structures? What are the basic requirements of a sluice gate? 3+2=5

(f) What are the purpose of pumping in aqua farms? Mention the types of pump used in aqua farms.

(g) Write a note on sand filter used in aquaculture. What are the main advantages of sand filters in aquaculture systems?

(h) Discuss aeration system in fish pond. 5

What are the advantages and disadvantages of raceway culture system?

Briefly describe the major components of a freshwater eco-hatchery system for fish seed production.

