

**QUESTION BANKS: AQUACULTURE ENGINEERING Code
(Credit): FSFE 2101 (2-1-0)**

Part -A

Multiple choice question:

1. For Intensive aquaculture the design of the tank should be
a) Square **b) Circular** c) Rectangular d) Cylindrical
2. Which farming technology is eco-friendly and scientific
a) Extensive **b) Semi-intensive** c) Intensive d) Super-Intensive
3. In the drainage channel recommended side slope for clay soil is
a) 1:5:1 b) 2:1 c) 3:3 **d) 1:1**
4. Traversing is principally based on
a) Levelling survey **b) Compass survey** c) Plane table survey d) Marketing Pond
5. Contour line is a
a) Intermediate line **b) Imaginary line** c) Horizontal line d) None

Part – B

Fill in the blanks:

1. _____ is the most commonly used aerator in aquaculture ponds. (**Paddlewheel**)
2. _____ is a positive displacement pump. (**reciprocating**)
3. For intensive farming commonly used farm type is _____ shape. (**circular**)
4. In raceway culture water flow is ----- liter/min/kg. (**0.5 – 1**)
5. Paddlewheel aerators are ----- type of aerators. (**surface**)

Part – C

Match the following:

a	Linear measurements are taken by	i	To support the instrument (b)
b	A tripod is commonly used in leveling	ii	Sunken pond (c)
c	Ponds that are not having inlet and outlet structures and are fed by rainwater are known as	iii	Tape (b)
d	Ponds that are created by constructing a dyke or embankment across the water source	iv	Reciprocating (e)
e	Wind mill is	v	Embankment Pond (d)

Part – D

Define the following:

1. Define fish farm.
2. Define contour surveying.
3. Define land surveying.
4. Define plane table surveying
5. Define leveling.

Part- E

Descriptive types questions:

1. Explain in brief the procedure of site selection of fish farms.
2. Write the classification of Land surveying.
3. What are the main criteria for the construction of hatcheries.
4. What are the different types of dykes explain briefly.
5. What are the different types of ponds explain briefly.

Descriptive types questions:

Explain the Following

6. Brackish water fish farm. Draw the layout diagram of hatcheries.
7. Layout plan and construction of a pond with a suitable diagram.
8. Explain different types of surveying.
9. Explain the principles of aerators and their different types with a suitable label diagram
10. Explain the filtration systems and its construction. Draw a a label diagram of a biofilters.