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Course: B.Voc, Program: Agriculture
Subject: Aquaculture Techniques, Code: AGB-21307
Semester: III

Time: 03 Hours

Max Marks: 70

Instructions to the Students:

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries 2 marks.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries 10 marks.
4. Do not write anything on the question paper.

Q.No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
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| 1. | a | Write the difference between Pen and cage culture. | (2) |
| | b | Write the advantage of mono-sex culture system. | (2) |
| | c | What is carrying capacity of an aquatic system? | (2) |
| | d | Write Pros and Cons of Re-circulatory Aquaculture system. | (2) |
| | e | What is integrated aquaculture system? | (2) |
| | f | Explain in brief about fish pond site selection. | (2) |
| | g | What is the role of NPK in fish pond? | (2) |
| | h | List out important water quality parameters of fish pond for fish culture. | (2) |
| | i | Write the important characteristics of candidate species for aquaculture. | (2) |
| | j | What is food chain and food web? | (2) |

SECTION –B (LONG ANSWER TYPE QUESTIONS)

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| 2. | What is raceway? Explain different types of raceway with drawings. | (10) |
| 3. | Write the difference between extensive, semi-intensive and super-intensive aquaculture system. | (10) |
| 4. | What is Bio flock? Give a detail account of Bio flock culture system. | (10) |

5. What are key water quality parameters in detail and their optimum range for carp culture system? (10)
6. Explain phosphorus and nitrogen cycle in the pond culture system. (10)
7. What is algal bloom? Explain issues of algal bloom in fish culture system. (10)
8. Explain key considerations in the fish pond construction. (10)
9. Give a detailed account of functional classification of fish ponds. (10)

===END OF PAPER===