

QP CODE: 24900007



Reg No:.....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
FIRST SEMESTER MGU-UGP (HONOURS) REGULAR
EXAMINATION NOVEMBER 2024

First Semester

Discipline Specific Core Course - MG1DSCAQC100 - INTRODUCTION TO
AQUACULTURE SYSTEMS AND RESOURCES

(2024 ADMISSION ONWARDS)

Duration: 1.5 Hours

Maximum Marks: 50

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I),
Appreciation (Ap), and Skill (S)**

*Students should attempt atleast one question from each course outcome to enhance their overall
outcome attainability.*

[Learning Domain][CO No(s)]

Part A

Very Short Answer Questions

Answer any 10 questions. each question carries 2 marks.

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|---|--|---------|
| 1 | What is the main advantage of practicing raceway culture? | [K] [1] |
| 2 | Name any two stenohaline species | [K] [1] |
| 3 | Write the scientific names of any two exotic carps | [K] [5] |
| 4 | Discuss the diurnal fluctuation of dissolved oxygen in culture ponds | [U] [2] |
| 5 | What is meant by soil texture? | [U] [2] |
| 6 | Define stocking density | [U] [2] |
| 7 | Write any two benefits of Biofloc Technology | [K] [3] |
| 8 | What are the primary components of an aquaponics system? | [K] [3] |
| 9 | Comment on Pig-cum-Fish Culture | [U] [4] |

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|----|--|-----|-----|
| 10 | Mention any two differences between edible oysters and pearl oysters | [A] | [5] |
| 11 | Identify two seaweed species with high commercial value in aquaculture | [U] | [5] |
| 12 | Mention any two species of cultivable bivalves with their scientific names | [K] | [5] |

(10 × 2 = 20)

Part B

Short Answer Questions

Answer 3 questions.

Each question carries 6 marks

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|----|--|-----|-----|
| 13 | Elaborate upon the significance of Ammonia in Fish culture ponds and its management | [U] | [2] |
| 14 | Explain the major benefits and challenges of recirculatory aquaculture system | [K] | [3] |
| 15 | Discuss the role of Duck-cum-Fish Culture in improving water quality and fish productivity | [U] | [4] |
| 16 | Describe the morphology of a penaeid prawn | [K] | [5] |
| 17 | Describe the economic importance of sea urchins | [U] | [5] |

(3 × 6 = 18)

Part C

Essay Type Questions

Answer any 1 question.

Each question carries 12 marks

- | | | | |
|----|---|-----|-----|
| 18 | Compare the extensive, semi-intensive and intensive methods of aquaculture | [U] | [1] |
| 19 | Summarise the different Physical and Biological water quality parameters in Fish culture and their management | [U] | [2] |
| 20 | Write an essay on cultivable seaweed and their economic importance | [U] | [5] |

(1 × 12 = 12)

END OF THE QUESTION PAPER
