

C 20509

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Name.....

Reg. No.....

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2022

(CBCSS—UG)

Aquaculture

AQC 6B 17—FISH GENETICS, BIOTECHNOLOGY AND BIOINFORMATICS

(2019 Admissions)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A*Answer at least **ten** questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 30.*

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|-------------------------|-------------------------|
| 1. Mitochondria. | 2. Nucleosome. |
| 3. Prophase. | 4. Co-dominance. |
| 5. Mutagens. | 6. Hybrid vigor. |
| 7. Hermaphroditism. | 8. Restriction Enzymes. |
| 9. Cloning vectors. | 10. Saxitoxin. |
| 11. BLAST. | 12. FAO. |
| 13. Law of segregation. | 14. Taq polymerase. |
| 15. Trisomy. | |

(10 × 3 = 30 marks)

Section B*Answer at least **five** questions.**Each question carries 6 marks.**All questions can be attended.**Overall Ceiling 30.*

16. Difference between prokaryotic and eukaryotic cell.
17. Types of biological databases.

Turn over

18. Chromosome structure and types.
19. Complete, incomplete and co-dominance.
20. Sex determination in fishes.
21. Transgenic fish.
22. Cryopreservation.
23. Marine toxins.

(5 × 6 = 30 marks)

Section C

*Answer any **two** questions.*

Each question carries 10 marks.

24. Discuss about applications of biotechnological tools in aquaculture.
25. Write in detail about the types of mutations and mutagens.
26. Explain mitosis and its various stages with diagram.

(2 × 10 = 20 marks)