Reg. No

Name

MSc DEGREE END SEMESTER EXAMINATION- MARCH 2018 SEMESTER 4 : AQUACULTURE AND FISH PROCESSING COURSE : 16P4AQCT14 ; FISH MICROBIOLOGY AND QUALITY ASSURANCE

(For Regular - 2016 admission)

Time : Three Hours

Max. Marks: 75

Section A Answer any 8 (2 marks each)

- 1. How histamine is formed in scombroid fish?
- 2. What is spore stain?
- 3. What is pili and the importance of sex pili?
- 4. What is meant by Gram positive organisms and give two examples?
- 5. What are hypochlorites?
- 6. Differentiate quality assurance from quality control
- 7. Demerit scoring for organoleptic evaluation
- 8. Peroxide value
- 9. BIS
- 10. Botulism
- 11. FSSAI
- 12. Inprocess quality control

(2 x 8 = 16)

Section B Answer any 7 (5 marks each)

- 13. What is the importance of total bacterial count in fish?
- 14. Effect of salt curing on bacteria.
- 15. Write briefly on bacterial reproduction.
- 16. Give an account of heavy metals in Seafood
- 17. Why water quality is important in Seafood industry?
- 18. Describe the common disinfectants used in sea food industries.
- 19. Explain different types of hazards in seafoods with examples
- 20. Write on EU 98/83 standards
- 21. Elaborate on GMP in seafood industries
- 22. Explain the importance of personnel hygiene is seafood industry.

(5 x 7 = 35)

Section C Answer any 2 (12 marks each)

- 23. Describe the method for detection of total coliforms, faecal coliforms and *E.coli* in fish samples.
- 24. Quality issues of fish and fishery products
- 25. What is meant by hazard with respect to HACCP? Write on different hazards in seafoods.

26. Explain SSOP and its advantages.

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