

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1**SEMESTER EXAMINATIONS****APRIL – 2019****15CMB6E****ELECTIVE IV : MARINE MICROBIOLOGY****Time: 3 Hrs****Max. Marks: 75****SECTION – A (10 X 2 =20)****Answer ALL the questions.**

1. Define estuaries.
2. Give two examples for sea weeds.
3. Define halophiles.
4. Name two extremozymes of biotechnological applications.
5. Define radioactive pollution.
6. Name two probiotic bacteria and its uses.
7. What is meant by extensive aquaculture?
8. Give two examples for vaccines of marine origin.
9. Define antibiotic.
10. Importance of Astaxanthin.

SECTION – B (5 X 5 =25)**Answer any FIVE of the following questions.**

11. Write a short note on mangroves.
12. Explain the adaptation strategies of halophiles.
13. Give a short note on hydrothermal vents.
14. Discuss briefly about marine oil pollution.
15. Write about biofouling on marine structures.
16. Give a short note on marine pathogens.
17. Importance of marine microbial enzymes.
18. Discuss about “Marine organisms as sources of untapped resources”.

SECTION – C (3 X 10 =30)**Answer ALL the questions.**

19. (a) Discuss in brief about marine microbial community.
(Or)
(b) Biotechnological applications of extremophilic organisms.
20. (a) Explain about marine extremophiles.
(Or)
(b) Discuss about heavy metal pollution in coastal waters.
21. (a) What are the measures to control marine pollution?
(Or)
(b) Write about the types of aquaculture .