

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1
SEMESTER EXAMINATIONS
APRIL – 2019
BIOTECHNOLOGY

15CBC6C

Time: 3 Hrs

Max. Marks: 75

SECTION – A (10 X 2 =20)

Answer ALL the questions.

1. Name any two microbes used in the production of proteases.
2. Give any two applications of immobilized enzymes.
3. Define callus.
4. Name the chemicals used for induction of root and shoot.
5. Define cosmids.
6. Mention the use of T-plasmid?
7. What is cDNA?
8. Give the significant feature of Taq polymerase.
9. What are interferons?
10. What are lymphokines?

SECTION – B (5 X 5 =25)

Answer any FIVE of the following questions.

11. Briefly describe the applications of enzymes produced using microbes.
12. Give an account of the steps involved in plant tissue culture.
13. Elaborate on the classification of plasmids.
14. Give an account on Expression vectors.
15. Elaborate on production of insulin.
16. How is fruit ripening delayed in plants?
17. Explain the features of PBR 322.
18. Outline the procedure for construction of genomic library.

SECTION – C (3 X 10 =30)

Answer ALL the questions.

19. a) Give an account of the different methods of immobilization of Enzymes.
(Or)
b) Elaborate on the principle of genetic engineering for pest resistance and Stress tolerance in plants.
20. a) Explain in detail the isolation of plasmids.
(Or)
b) Write a detailed note on nomenclature and classification of Restriction endonucleases.
21. a) Give an account of the production and applications of monoclonal antibodies.
(Or)
b) Outline the history of Biotechnology.