

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
SEMESTER EXAMINATIONS
APRIL - 2018
BIOTECHNOLOGY

15CBC6C

Time : 3 Hours

Max. Marks : 75

SECTION – A (10 x 2 = 20)

Answer ALL the questions.

1. Name any two microbes used in the production of enzyme.
2. Define Immobilized enzyme.
3. What is meant by transgenic plants? Give an example.
4. Write any two medium used in plant tissue culture.
5. Define Plasmid.
6. Mention any examples for bacteriophages.
7. What is known as Restriction Endonuclease?
8. What is the difference between Taq polymerase and DNA polymerase?
9. Define monoclonal antibodies.
10. Add a note on growth Hormone.

SECTION – B (5 x 5 = 25)

Answer any FIVE of the following questions.

11. Explain in detail the methods used in the preparation of immobilized enzymes.
12. Discuss briefly how T- DNA transfer and integrate into the host cell?
13. List the characteristics of Plasmid.
14. Write about PSE101 in detail.
15. Write notes on Insetion vector and replacement vector.
16. Explain how Ligase involved in constructing rDNA with a suitable example?
17. Explain how rDNA technology is involved in the production of lymphokines?
18. Give the structure of pBR322 and explain its advantages.

SECTION – C (3 x 10 = 30)

Answer ALL the questions.

19. (a) Discuss in detail about the application of Immobilized enzymes.

(Or)

(b) Describe in detail about Genomic Library.

20. (a) Explain the concept and application of delay of fruit ripening.

(Or)

(b) Discuss about the Nomenclature of RE.

21. (a) Write a note on classification and isolation of plasmid.

(Or)

(b) Discuss the construction, production and purification of recombinant Insulin.