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**D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**

**SEMESTER EXAMINATIONS**

**APRIL - 2017**

**15CPBT2A**

**GENETIC ENGINEERING**

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**Time: 3 Hrs**

**Max.Marks : 75**

**SECTION-A (5x 6 =30)**

**Answer ALL the questions.**

1. (a) Give an account on types of plasmid and pBR322.

(Or)

(b) Explain detail about YAC.

2. (a) Give a brief account on c DNA library.

(Or)

(b) Discuss briefly about Chromosome Walking.

3. (a) Write briefly on EMSA.

(Or)

(b) Give short notes on DNA Footprinting.

4. (a) Write a note on Molecular beacons.

(Or)

(b) Give a detailed account on step involved in methods of mutagenesis.

5. (a) Write short notes on DNA Microinjection.

(Or)

(b) Explain about Gene therapy and their types.

**SECTION-B (3x15 =45)**

**Answer any THREE of the following questions.**

**Explain/Discuss in detail about the following.**

6. RNA probe synthesis.

7. Different hybridization techniques.

8. DNA Sequencing.

9. PCR procedure, types and applications.

10. Ti plasmid.

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