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

15CPBT2A

Time : 3 Hrs

Max. Marks : 75

SECTION-A (5 x 6 = 30)

Answer ALL questions.

1. (a) Write notes on cosmids and phasmids
(Or)
(b) What are the characteristics of expression vector?
2. (a) How will you construct cDNA library?
(Or)
(b) Write notes on chromosome walking.
3. (a) Explain about the enzymatic method of DNA sequencing.
(Or)
(b) Describe about the DNA foot printing.
4. (a) Write about the different types of PCR.
(Or)
(b) Write notes on Kuntel's method of mutagenesis.
5. (a) Explain about transgenic plants.
(Or)
(b) Comment on transfection of embryonic stem cells.

SECTION-B (3 x 15 = 45)

Answer any THREE of the following questions.

6. Write an essay on λ phage vectors in detail.
7. Discuss on microarray and its applications.
8. Describe about protein engineering and its importance.
9. Write an essay on mutagenesis and its importance in biological science.
10. Give an account on the molecular gene therapy and its applications.

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