

Reg No:

--	--	--	--	--	--	--	--	--	--	--	--

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

SEMESTER EXAMINATIONS

NOVEMBER - 2017

15CPBT1A

MOLECULAR GENETICS

Time : 3 Hrs

Max.Marks : 75

SECTION-A (5x 6 =30)

Answer ALL the questions.

1. (a) Explain DNA damage and repair mechanism.
(Or)
(b) Describe various types and causes of mutation.
2. (a) Describe about RNA interference.
(Or)
(b) Explain the structure of t-RNA.
3. (a) Write notes on Tryptophan Operon.
(Or)
(b) Give an account on Yeast LAC Operon.
4. (a) What is Transposable element? Describe.
(Or)
(b) Describe site specific recombination.
5. (a) Briefly write about southern blotting.
(Or)
(b) Give an account on nucleic acid hybridization.

SECTION-B (3x15 =45)

Answer any THREE of the following questions.

6. Describe gene replication in prokaryotes.
7. Give an account on the characteristics of genetic code and its elucidation.
8. Write an essay on DNA sequence rearrangement in Salmonella.
9. Elaborate the biological significance of recombination and transposable elements.
10. Explain in detail about PCR and its applications.

* * * * *