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

15CPBC4B

Time : 3 Hrs

Max. Marks : 75

SECTION-A (5 x 6 = 30)

Answer ALL the questions.

1. (a) How are probes labeled?

(Or)

(b) How are recombinants selected?

2. (a) Brief gene transfer using *A.tumefaciens*.

(Or)

(b) How is fruit ripening delayed using rDNA technology?

3. (a) List few transgenic animals. Explain the production of transgenic pig.

(Or)

(b) Describe the role of viruses in gene transfer.

4. (a) What are biological databases?

(Or)

(b) How do you perform a BLAST?

5. (a) Write about the tools involved in the structural analysis of primary proteins.

(Or)

(b) How are the functional features of a protein predicted?

SECTION-B (3 x 15 = 45)

Answer any THREE of the following questions.

6. Describe PCR and explain any two of its variants.

7. Detail the strategies involved in the production of herbicide resistant plants.

8. Enlist the reproductive technologies, Elaborate IVF.

9. What is sequence alignment? Describe the types of sequence analysis.

10. How is 3d protein structure predicted? Describe homology modelling.

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