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Paper Code : DSC-310

Roll No.

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B.Sc. (ZBC)-24

3rd Year Examination, Calendar Batch 2015

Botany-VI (Plant Breeding, Biotechnology and Genetic Engineering)

Time : 3 Hours]

[Max. Marks : 100

*Note. Attempt any **Five** questions. All questions carry equal marks.*

- Q.1** Define DNA technology? Explain in short the importance of different enzyme for rec-DNA technology.
- Q.2** What do you mean by plant introduction? Explain the role of introduction in crop improvement.
- Q.3** What is differentiation? What it is role in plant tissue culture?
- Q.4** What are fibers? Classify the fibers on the basis of their uses.
- Q.5** What do you means by Hybridization? Explain the various methods, merits and demerits of hybridization.
- Q.6** What is gene mapping? Explain its type and significance.
- Q.7** What is Biotechnology? Explain the various methods, application and scope of biotechnology? Write the development of biotechnology in India.
- Q.8** Who is the father of plant breeding in India? Describe the history and development of plant breeding.