



**DPB – 540 (Biotech)**

**M.Sc. (Final) Biotechnology Degree Examination, July/August 2011  
(Directorate of Distance Education)**

**Paper – VIII : RECOMBINANT DNA TECHNOLOGY**

Time : 3 Hours

Max. Marks : 75/85

- Instructions :** i) Answer *all* questions.  
ii) Illustrate *wherever* necessary.  
iii) Students who have attended 25 marks IA scheme will have to answer for total of 75 marks.  
iv) Students who have attended 15 marks IA scheme will have to answer for total of 85 marks.  
v) Section **B** is **compulsory** for 85 marks.

SECTION – A

1. Write briefly the following : **(4×3=12)**  
a) Ti-plasmid  
b) Eco-RI  
c) Interferons  
d) HAT medium.
2. Write short notes on **any THREE** of the following : **(3×5=15)**  
a) Patenting of GMOs  
b) Western blotting  
c) RAPD  
d) Biopiracy.
3. Answer **any TWO** questions from the following : **(2×9=18)**  
a) Screening of rDNA  
b) DNA finger printing  
c) RFLP and its applications.

**P.T.O.**



4. Give an account of the production of Dolly. Add a note on the applications of animal cloning. **15**

OR

Discuss the impact of Biotechnology on human society.

5. Describe the role of rDNA technology in the synthesis of super drugs. **15**

OR

Write an account on the molecular tools employed in gene cloning methods.

#### SECTION – B

(**Compulsory** question for **85** marks scheme only)

Answer **any ONE** of the following :

6. Write an account on restriction mapping. **10**

OR

Explain the principle and procedure of enzymatic method of DNA sequencing.