

Olubisi Onabanjo University, Ago Iwoye.  
Department of Biological Sciences  
2002/2003 Harmattan semester examinations.  
CESAP. MCB 301 Microbial Genetics.

Time: 2Hrs.

*Instructions: Answer two questions from each section.*

### SECTION A

1. *Discuss the type of gene transfer in which a viral particle is involved.*
2. *Write short notes on the following:*
  - [a] mRNA
  - [b] tRNA
  - [c] rRNA
  - [d] DNA replication.
3. *Write an essay on mutation.*

### SECTION B

4. *Discuss several important present or future applications of recombinant DNA technology.*
5. *Describe two ways in which DNA fragments could be isolated, purified and cloned.*
6. *Briefly describe the polymerase chain reaction technique. What is its importance?*

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