

2016

**GENETIC ENGINEERING
AND RDT**

Time : Two Hours] [*Maximum Marks* : 40

Answer any **four** Questions. The questions are of equal value.

1. Describe the tools and techniques in recombinant DNA technology.
2. Write short notes on the following :
 - (a) Cloning vectors
 - (b) Phase display
3. Describe the Gene regulation analysis.
4. Write short notes on the following :
 - (a) Southern hybridization
 - (b) Polymerase chain reaction
5. Give a critical account on Genetic and Physical Maps.

6. Write short notes on the following :
 - (a) RAPD
 - (b) Market assisted selection in livestock
7. Explain the role of Genetic Engineering in pharmaceutical industry.
8. Write short notes on the following :
 - (a) Somatic theory
 - (b) Geographical indications