DG-3150
B. Sc. (Sem. V) Examination
March/April – 2016
506 : Bioscience
(Basic Biotechnology)

Time : 2 Hours] [Total Marks : 50

Instructions :

(1) Fill up strictly the details of and signs on your answer book.

Name of the Examination :
B. Sc. (Sem. V)

Name of the Subject :
506 : BIOSCIENCE (BASIC BIOTECHNOLOGY)

Subject Code No. : 3 1 5 0

(2) Draw neat & labelled diagrams wherever necessary.

(3) Figures to the right indicate full marks of the question.

Q. 1 Answer as directed.

1. Explain: Genetic engineering.
2. Describe in brief blot technique.
3. Enlist the various requirements for PCR
4. Give the full form of BAC, YAC.
5. What is Polycystronic m-RNA?
6. Define : Translation, Chimeric DNA

Q. 2 Describe in detail the basic procedure of cloning

OR

Q. 2 1) Describe in brief general application of rDNA technology.
2) Write a note on enzymes for cloning.
Q. 3 Answer any two of the followings.
1. Describe in brief the basic procedure of DNA amplification.
2. Describe in brief elongation process of protein synthesis.
3. Write a note on Lac Operon.

Q. 4 Write short notes: (any two)
1. Termination of protein synthesis
2. Formation of charged t-RNA.
3. Western blot.