January, 2017

BIOINFORMATICS AND BIOSTATISTICS

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

Answer any **five** questions. The questions are of equal value.

1. Write notes on the following :

   (a) Hardware and Software

   (b) Linux as Operating System

2. What do you understand by Databases ? Give an account of some important primary and secondary bioinformatic databases.

3. Write notes on the following :

   (a) Sequence submission to database

   (b) Application of bioinformatics

4. What are retrieval tools ? How they work ?

5. Write notes on the following :

   (a) Hidden Markov model

   (b) DNA chip

6. Describe the process of DNA sequencing. How sequencing of an organism is useful ?

7. Write notes on the following :

   (a) ANOVA

   (b) Null Hypothesis

8. Following is the total number of eggs laid by 7 insects. Calculate its mean and standard deviation.

Number of eggs :	5	10	2	4	6	7	5