

**3465(N)**

**B. Sc. (Biotechnology) Examination,**

**May 2016**

**BIOMATHEMATICS, BIOSTATISTICS, COMPUTERS**

**AND BIOINFORMATICS**

**(B-202)**

**(Old Course)**

*Time : Three Hours] [Maximum Marks : 100*

*Note : Answer any Five questions. Each question carries 20 marks.*

1. (a) What is data processing ? Explain the different types of data processing. 10
- (b) What is Computer ? Explain ALU and control unit. 10

2. (a) What are Computer Languages ? Explain the different types of computer languages. 10
- (b) What are impact and non-impact printers ? What are the various ways by which we classify computers on the basis of processing power ? 10
3. Explain the different generations of computer in detail. 20
4. (a) What is set theory ? Explain the properties of subsets. 10
- (b) What is the binomial theorem of integer ? Explain with proof. 10
5. What are the applications for simple algebraic and trigonometric functions ? Explain in detail. 10+10
6. Write notes on the following :
  - (a) Idea of sampling 4
  - (b) Distribution and standard error 4
  - (c) Large sampling 4
  - (d) Normal tests 4
  - (e) Measures of location and dispersion 4

7. (a) Explain classification and tabulation with suitable example. 10  
(b) Theorem on total and compound probability. 10
8. (a) What is probability ? Explain probability calculation with example. 10  
(b) What is dispersion ? Explain the measurement of dispersion. 10
9. (a) What is Computer Memory ? Explain the different types of memory. 10  
(b) Explain for database for Biotechnology. 10
10. (a) What is genome analysis ? Explain in detail. 10  
(b) What are the applications of computers in Biotechnology? 10