

**B.Sc. (Part—III) Semester—VI Examination**  
**BIOINFORMATICS**  
**(Advanced Bio-Computing)**

Time : Three Hours]

[Maximum Marks : 80

**Note :—**(1) Q. No. 1 is compulsory and carries 8 marks.

(2) Attempt **SIX** questions from rest carries 12 marks each.

1. (a) Fill in the blanks : 2
- (i) ..... allows the declaration of variables.
  - (ii) Break statement is used for ..... of program.
  - (iii) Numeric constants are .....
  - (iv) The class declarations are placed in .....
- (b) Choose the correct alternative : 2
- (i) The function defined within class declaration is treated as .....
    - (a) Constructor (b) Destructor
    - (c) Inline function (d) None  - (ii) ..... is used for security.
    - (a) Encapsulation (b) Binding
    - (c) Data Hiding (d) All of the above  - (iii) ..... command is used to make changes in database table.
    - (a) CREATE (b) REN
    - (c) ALTER (d) DROP  - (iv) ..... is not cursor attribute.
    - (a) % FOUND (b) % NOT FOUND
    - (c) % ISOPEN (d) % CLEAR
- (c) Answer in one sentence : 4
- (i) What is meant by External Variables ?
  - (ii) Define Function.
  - (iii) Give the types of numeric constants.
  - (iv) Explain function overloading.
2. (a) Explain dynamic initialization of variables. 4
- (b) Give the declaration of structures. 4
- (c) Explain string literals. 4

**OR**

- (p) Write the program for Inline function. 4
- (q) Write about unsigned data type. 4
- (r) What do you mean by function overloading ? 4

3. (a) Describe data wrapping with example. 4  
(b) What are user defined data types ? 4  
(c) Write about creating objects. 4
- OR**
- (p) Explain parameterized constructors. 4  
(q) Give the rules for overloading the operators. 4  
(r) What is data hiding ? Explain. 4
4. (a) Describe the normalization process. 6  
(b) Explain REN Command with example. 6
- OR**
- (p) Explain data dictionary in detail. 6  
(q) Explain BREAK statement. Add a note on BCNF. 6
5. (a) Describe the Equijoin. 4  
(b) Explain Boolean and Control structures. 4  
(c) Give details of cursor. 4
- OR**
- (p) What is Record Fetching ? 4  
(q) Explain Entity Integrity Constraint. 4  
(r) Describe Iterative Control. 4
6. (a) What is meant by granting privilege ? 6  
(b) Describe creation of role. 6
- OR**
- (p) What is creating users ? 6  
(q) Explain REVOKE privilege. 6
7. (a) Explain Installation of PERL in detail. 6  
(b) What is Reverse Complement in PERL ? 6
- OR**
- (p) Explain subroutines scoping and command-line arguments. 6  
(q) Describe bugs fixing in code. 6