

5. (a) Describe the concept of data integrity. 6
 (b) What is the significance of savepoint ? Explain. 6

OR

- (p) Describe any two control structures in PL/SQL. 6
 (q) What are unions ? Explain. 6
 6. (a) Explain various privileges associated with a user. 4
 (b) What is Role ? Describe the need of Roles. 4
 (c) Write the method for giving privileges to an user. 4

OR

- (p) How can a user pass privileges to other ? Explain. 4
 (q) Write the features of SQL *forms. 4
 (r) Write the procedure for removing the privileges. 4
 7. (a) Write the benefits of PERL. 4
 (b) Explain use of arrays in PERL. 4
 (c) What is a subroutine ? Explain with an example. 4

OR

- (p) Write the steps for installing PERL. 4
 (q) What are command line arguments ? Explain. 4
 (r) How debugging is done in Perl Code ? Explain. 4

AQ-764

B.Sc. Part-III (Semester-VI) Examination

6S : BIOINFORMATICS

(Advanced Bio-Computing)

Time—Three Hours]

[Maximum Marks—80

Note :— (1) ALL questions are compulsory.
 (2) Draw diagrams wherever necessary.

1. (a) Fill in the blanks :

- (i) Using _____ a class can acquire properties of another class.
 (ii) The query _____ is used to change the structure of a table.
 (iii) The _____ statement completes a database transaction.
 (iv) _____ is the member function of class which is invoked automatically when its object is created. 2

- (b) Choose the correct alternative :

- (i) Which of the following is not a feature of object oriented programming paradigm ?
 (a) Inheritance (b) Polymorphism
 (c) Static binding (d) Data encapsulation

- (ii) DML stands for _____.
- Data Management Language
 - Data Manipulation Language
 - Data Modification Language
 - Data Manipulation Library
- (iii) The member function which is used to free the data members of the same class is _____.
- Destructor
 - Destroyer
 - Release
 - Free
- (iv) PERL stands for _____.
- Practical Experiment and Report Language
 - Practical Extraction and Report Language
 - Practical Experiment and Result Language
 - Practical Extraction and Result Language
- (c) Define the following :
- Polymorphism
 - ALTER statement
 - Function prototype
 - SQL data types.
2. (a) Explain constants in C++. 4
- (b) Describe the logical operators in C++. 4
- (c) List the characteristics of inline function. 4
- (p) What is dynamic binding ? Explain. 4
- (q) Write a recursive function "fact ()" which finds the factorial of a given number. 4
- (r) Describe the "switch" statement in C++. 4
3. (a) Describe the different ways for defining a member function. 4
- (b) Explain the access specifiers in a class. 4
- (c) Define a class with two data members and two member functions to read and display the contents of data members. 4
- OR**
- (p) Explain multiple inheritance with suitable example. 4
- (q) What is operator function ? Explain. 4
- (r) What is default constructor ? Explain. 4
4. (a) Describe the hierarchical database model. 6
- (b) Explain any two DDL commands with suitable examples. 6
- OR**
- (p) What is data dictionary ? Explain. 6
- (q) Explain the BCNF for normalizing a database. 6

OR