

AP-534

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

BIOINFORMATICS

(Advanced Bio-Computing)

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) Attempt **SEVEN** questions in all.

(2) Question No. 1 is compulsory and carries
8 marks.

(3) Attempt **SIX** questions from rest carrying
12 marks each.

1. (A) Fill in the blanks : 2

(i) The value which does not change during
execution of program called as _____ .

(ii) DML stands for _____ .

(iii) _____ is a process in which you eliminate
problem in database.

(iv) _____ operator allow to bring data from two
or more table together into the single table.

(B) Choose the correct alternatives :

2

(i) DDL stands for _____ .

- (a) data defination language
- (b) data description language
- (c) data document language
- (d) dumpy data language

(ii) _____ is a DDL command

- (a) create
- (b) select
- (c) insert
- (d) delete

(iii) _____ is a type of inheritance

- (a) Highlevel
- (b) Multiple
- (c) Static
- (d) Dynamic

(iv) _____ is a operator which can't be overloaded

- (a) +
- (b) -
- (c) =
- (d) ::

Give detail account on GRANT privileges. Add explanation on SQL reports with examples. 12

7. Write on :—

- (A) Bio perl. 4
- (B) Perl programming. 4
- (C) Subroutine data in perl. 4

OR

- (P) Applications of perl. 4
- (Q) Reverse compliment. 4
- (R) Syntax for perl programming. 4

(C) Answer in **ONE** sentence : 4

(i) What is RDBMS ?

(ii) What is transition ?

(iii) What is variable ?

(iv) What is array ?

2. (A) What is OOPs ? Explain features of OOPs. 6

(B) What is operator ? Explain types of operator with example. 6

OR

(P) Explain how structure is different from class. 6

(Q) What is inline function ? Write rules for creating inline functions. 6

3. Write on :

(A) Data abstraction. 4

(B) Public term. 4

(C) Inheritance. 4

OR

(P) Data encapsulation. 4

(Q) Objects in C⁺⁺. 4

(R) Explain private term. 4

4. Write on :

- | | |
|-------------------------------|---|
| (A) Normalization. | 4 |
| (B) DML commands (any three). | 4 |
| (C) Data dictionary. | 4 |

OR

- | | |
|---------------------|---|
| (P) SQL | 4 |
| (Q) Database model. | 4 |
| (R) DMI Operation | 4 |
5. Write on :
- | | |
|---------------|---|
| (A) PL/SQL. | 4 |
| (B) Equijoin. | 4 |
| (C) RPAD. | 4 |

OR

- | | |
|---------------------------|---|
| (P) Advantages of PL/SQL. | 4 |
| (Q) (i) LT RIM | |
| (ii) Soundex | 4 |
| (R) Inner Join. | 4 |
6. What is privileges ? Elaborate on system privilege, its role and needs. 12

OR