

Exam. Code : 206602

Subject Code : 4087

M.Sc. Bioinformatics 2nd Semester

PROGRAMMING IN PERL FOR BIOINFORMATICS

Paper—BI-522

Time Allowed—3 Hours]

[Maximum Marks—75

Note :- Attempt any **five** questions. All questions will carry equal marks. The students can use only non-programmable and non-storage type calculator.

1. (A) What are scalar data and scalar variables ? Explain by taking example.
(B) What is the difference between C++ and Perl ?
2. (A) How do you send an email using a Perl program on Unix System ?
(B) What does `length(%HASH)` produce if we have 37 random keys in newly created hash ?
3. Why Perl is used extensively in biology ? Justify your answer.
4. What do you mean by quantifiers in Perl and what are the greedy qualifiers ? Describe by using example.
5. Write a pseudo code design to simulate DNA mutation.
6. What is the significance of parse BLAST output ?
7. How to connect to MS Access database using Perl ?
8. How to manipulate sequence using Bioperl ?