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211/2/17

Exam. Code : 206603 Subject Code : 5149

M.Sc. Bio-Informatics 3rd Semester

PROGRAMMING IN PERL FOR BIOINFORMATICS

Paper—BI-635

Time Allowed—3 Hours] [Maximum Marks—75

SECTION—A

Note :— Section A is compulsory.

Explain the following in not more than *four* lines each :

1. Linux one of AVG etage of menory a staw

- 2. CPAN CPAN CPAN CONTRACTOR CONTRACTOR CPAN
- 3. Regular expression
- 4. Loop
- 5. Concatenating DNA sequence
- 6. Motifs
- 7. Random number
- 8. FASTA format
- 9. BioPerl and the basis of basis of up to be well a lot
- 10. Sequence objects.

1.5×10=15

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SECTION-B

Note :— Answer *one* question from each unit. UNIT—1

- 1. Discuss steps involved in downloading, installation and execution of Perl on Windows Machine.
- 2. What do you understand by Perl interpreters and script ? Explain features of Perl which make it convenient for bioinformatics.

UNIT-2

- 3. Discuss file handling in Perl. How do you open, read and write a file ? Explain using example.
- 4. What are logical operators ? Explain different types of operators in Perl.

UNIT-3

- 5. Write a program in Perl to read a DNA sequence file and determine frequency of start and stop codon.
- 6. Write a program to read a DNA file and transcribe it into a RNA sequence. It should determine the frequency of occurrence for AUG, UAA and UGA in the RNA sequence.

UNIT-4

- 7. Write a program to generate random number.
- 8. Write a program to separate sequence and annotation from a GenBank file.

UNIT-5

- 9. Explain how Bioperl can be used for transforming formats of alignment files.
- What do you understand by Bioperl objects ? Explain location and interface objects.
 5×12=60

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