



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025
Semester-II

Class: I M.Sc
Major: Bioinformatics

Time: 2 Hrs.
Max. Marks: 60

23MBIC08 – Perl and Python

Course outcomes:

At the end of the course, students will be able to

- CO1: Understand the Perl scripts for demonstrating data manipulations
CO2: Develop substantial Python scripts using data structure for representing biological data.
CO3: Write the regular expressions in perl and python to solve scientific problems
CO4: Explain the fundamental concepts of the foundations of Python and Perl their role in data science and big data
CO5: Use the bioperl and biopythonmodules for tackling challenges, analyze and interpret biological data.

Part A

Choose the correct answer

6 x 1=6

1. The creator of Perl programming language is _____ **CO2 K1**
a. James Gosling b. Larry Wall c. Bredan d. Bjarne Strousrup
2. The year in which Perl was launched _____ **CO2 K2**
a. 1986 b. 1987 c. 1988 d. 1878
3. Which statement is used to enable strict mode in Perl **CO2 K2**
a. Strict mode
b. use strict
c. use strict mode
d. None of these
4. What will be the output of the following code? **CO2 K3**
\$m = 0;
if (\$m) {
 print "True";}
else {
 print "False";}
a. True b. False c. Error d. nothing will be print
5. Scalar variable in perl are **CO3 K2**
a. Array values b. A single unit of data c. String values d. all the above
6. Global scope variables can be used **CO3 K2**
a. Inside any function or block b. Inside a specific function
c. Inside a specific block d. outside the function

Part B

Answer the following

3x6=18

Answer should not exceed 400 words

- 7.a. What is Perl? Write about its features **CO1 K3**
Or
- 7.b. What is the difference of single and double quote in Perl? Explain with example. **CO1 K3**
- 8.a. What are escaping characters in Perl **CO2 K2**
Or
- 8.b. What is meant by Literals in Perl **CO2 K2**

- 9.a What are subroutines CO2 K2
Or
9.b. Write a short note on Packages in Perl CO2 K2

Part C 3x12=36
Answer the following
Answer should not exceed 800 words or four pages

- 10.a. Write about Scalar and array variables in Perl with examples CO1 K2
Or
10.b. Write about List and Hash in Perl with examples CO1 K3
- 11.a. Explain about pop, shift and unshift functions in Perl CO2 K2
Or
11.b. What are regular expressions? Explain with Two examples CO2 K2
- 12.a. Write a program to find the motif in a given sequences ? CO2 K2
Or
12.b Explain control structures in Perl CO2 K3