

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BTECH
BRANCH: BIOTECHNOLOGY

SEMESTER : V
SESSION : MO/2025

SUBJECT: BE329 PERL AND BIOPERL PROGRAMMING

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	State the following: Terminal, shell script, directory, vi editor, path	[5] 1	2
Q.1(b)	State the layers of UNIX structure and describe the key function and types of Kernel layer.	[5] 2	2
Q.2(a)	What is the difference between list and array? Write the syntax with diagram about push and splice.	[5] 2	2
Q.2(b)	What is control structure? What type of loop will be used for the following condition: incrementing each value of an array and listing all the values in an array.	[5] 3	3
Q.3(a)	What is global and local variable? Describe any two regular expressions with example.	[5] 2	2
Q.3(b)	What is argument? State with example.	[5] 2	2
Q.4(a)	Create and invoke a subroutine. What is the importance of return function in subroutine?	[5] 3	3
Q.4(b)	What is OOP? Define object and inheritance.	[5] 3	3
Q.5(a)	Compare chop and chomp. Describe the built-in File handles of Perl.	[5] 3	3
Q.5(b)	Describe the importance of BioPerl.	[5] 2	3

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