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SEAT No. \_\_\_\_\_

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SARDAR PATEL UNIVERSITY  
V.V.NAGAR  
EXTERNAL EXAMINATION(2019)  
T. Y. Bsc (BNF)-Semester -6<sup>th</sup>

Exam Date :- 25/03/2019, MONDAY  
Total Marks :- 70

Course :-US06CBNF01  
Time:10.00am – 1.00pm

Subject :- PERL

Q.1 Multiple Choice Questions

[ 10]

1. Scalar Data type used which Symbol.  
(a) & (b) \$ (c) @ (d) @\_
2. Which Operator is used to Replace a Multiple character.  
(a) sr (b) tr (c) s (d) st
3. Which of the Following symbol is used to indicate variable is Reference.  
(a) \ (b) \$ (c) % (d) @
4. Rand(1) function Return a value  
(a) Only 0 and 1 (b) between 0 to 1 (c) between 0 and less then 1 (d) 0 and greate then 1
5. Which data types provides very fast look up of value.  
(a) Int (b) Array (c) Hash (d) Scalar
6. Hash Data type used which symbol.  
(a) \$ (b) @ (c) % (d) #
7. Which of the Following function is used to add a element from begin.  
(a) Push (b) unshift (c) pop (d) shift
8. Which of the Following function is used to put a value in arbitery position?  
(a) join (b) scalar (c) splice (d) splice
9. Which of the following symbol indicate the Variable is scalar.  
(a) & (b) \$ (c) @ (d) %
10. Which of the following symbol Indicate the Variable is Array.  
(a) & (b) \$ (c) @ (d) %

Q.2 Short Questions(Any Ten)

[20]

1. Explain "my" Keyword?
2. Write a syntax of FASTA file.
3. Explain Rand and Scalar function with example.
4. Explain splice function with example.
5. What is use of \$0 ?
6. Calculate Reverse Complement in PERL.
7. What is HASH?
8. Write an advantage of Subroutine.
9. Expalin POP function with syntax.
10. Explain if Condition with example.
11. What is the use of Scalar Variable.
12. List different data types available in PERL.

(1)

(P.T.O)

- Q.3 a) What is Binding Operator? What is the use of Substitute operator? Explain in Detail with Example. [6]  
 b) Convert DNA to RNA: \$DNA='aaaaaaaccggtgc'; [4]

OR

- Q.3 a) What is Binding Operator? What is the use of TR operator? Explain in detail. [6]  
 b) How we Concat two DNA Fragments. Explain three Methods. [4]

- Q.4 a) How we Search motif from file ? Explain in detail with example. [6]  
 b) Explain Push and Unshift Function with syntax and Example. [4]

OR

- Q.4 a) How we Determine Frequency of Nucleotide explain with example.. [6]  
 b) Explain Scalar and shift Function with syntax and Example. [4]

- Q.5 a) Explain Pass by Value in detail with example. [6]  
 b) Explain Command Line Argument with Examples. [4]

OR

- Q.5 a) Explain Pass by Reference in detail with example [6]  
 b) What is Subroutine? Explain syntax of subroutine with example. [4]

- Q.6 Write a Program to Generate DNA Mutation with Example. [10]

OR

- Q.6 How we Create a FASTA Format file? Write a Program to Read a FASTA File, and Extract the Sequence Data from that file. [10]

