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SARDAR PATEL UNIVERSITY

T.Y.B.Sc. (5th Semester) (CBCS) Examination, December – 2020

US05CBNF21 : Web application Development Using PERL

Date: 24-12-2020, Thursday   Time: 02-00 to 04-00 pm.   Total Marks : 70

Q.1   Multiple choice questions: [10]

1. Rand (3) returns
   (a)value less then 0(b)value greater then 3(c)value between 0 and less then 3(d)0

2. Which of the following symbol indicate the Variable is Hash type.
   (a) & (b) % (c) @ (d) $

3. Which of the Following symbol is used to indicate variable is Reference.
   (a) \ (b) $ (c) % (d) @

4. Which of the following symbol is used to receive arguments?
   (a) & (b) $ (c) @ (d) @_

5. Which data types provide very fast look up of value.
   (a) Int (b) Array (c) Hash (d) Scalar

6. FASTA File used which symbol.
   (a) <= (b)>= (c)< (d) >

7. Which of the Following function is used to remove element from End?
   (a) Push (b) unshift (c) pop (d) shift

8. Which of the Following function is used to convert multiple lines into single?
   (a)open (b) split (c) join (d) scalar

9. Which of the following symbol indicate the Variable is Array.
   (a)& (b) $ (c) @ (d) %

10. Which Operator is used to replace a Multiple character?
    (a) sr (b) tr (c) s (d) st

Q.2   (A) Fill In the blanks.   [08]

1. _____operator is used to replace single character in PERL.
2. _____is used to remove end of line character
3. We make the variables specific only to subroutine by declaring them as _____variables
4. _____ is special variable that has name of the program.

(B) TRUE/FALSE

1. Split function is used to put element in arbitrary position(True/False)
2. Unless is same as "if". (True/False)
3. Symbol of Hash data type is @. (True/False)
4. Length function is used to find length of array.(True/False).

Q.3 Attempt any *Ten* out of *Twelve*.   **[20]**

1. Explain POP function with syntax.
2. Write syntax of FASTA file.
3. Explain Rand and Scalar function with example.
4. Explain splice function with example.
5. What is use of @_ ?
6. Explain Expression:: (^\s*$#).
7. Explain For Loop in PERL.
8. Write an advantage of Subroutine.
9. What is the use of $0.?
10. Explain if Condition with example.
11. What is the use of Scalar Variable?
12. List different data types available in PERL.

Q.4 Attempt any *Four* out of *Eight*.   **[32]**

1. What is Binding Operator? What is the use of Substitute operator? Explain in detail with Example.
2. How we calculate reverse Complement in PERL.
3. How we Search motif from file? Explain in detail with example.
4. Explain Pass by Value and Pass by Reference in detail with example
5. Explain Different Conditional Statement with Example.
6. What is HASH? Explain different data type available in PERL.
7. Write a Program to Generate DNA Mutation with Example.
8. Write a Subroutine to append 'ACGT' to any DNA sequence.

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[2]