

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Test-1, Examination- February 2016

B.Tech.- II Semester

COURSE NAME: PROGRAMMING LANGUAGES FOR BI

MAX MARKS:15

COURSE CODE: 15B11BI421

MAX TIME:1 hr

Note: All questions are compulsory. Carrying of Mobile phone during examination will be treated as case of unfair means.

Part A: 0.5 Marks questions (10X0.5 Marks = 5 Marks)

1. List the various functions that you would use for manipulating elements in an array?
2. Which pattern matching operator modifier finds all occurrences in a string?
3. Which pattern matching operator modifier uses extended regular expressions?
4. What is the difference between `/[0-z]+/` and `/\w+/`?
5. When you are pattern matching, you describe the pattern using
 - a. A string in double quotes
 - b. A MySQL select statement
 - c. A regular expression
 - d. A template
6. What does the statement `(FH, ">>abc.txt") do?`
7. Which of the following is NOT a comment line in Perl?
 - a. `#this is a comment`
 - b. `#####`
 - c. `#####`
 - d. `////////////////////////////////`
8. Which of the following commands will turn a scalar into a list of characters?
 - a. `@a=split ($str)`
 - b. `@a=split(/s/ $str);`
 - c. `@a=split(/./ $str);`
 - d. This task can be done in Perl but none of the above statements do it.
9. When using the "e s f" construct, do you also have to use the "else"?
10. What does `$list` contain, where `@lists=(1,2,3,4); ($list)=@lists;`

Part B: 2 Marks questions (5X2 Marks = 10 Marks)

1. a) Write the numerical operators AND its corresponding string Boolean operators for comparing two variables.
b) List at least five Good coding practices that you follow.
2. a) If you want to convert DNA to RNA, which operator will you use and why?
b) When translating a DNA to protein sequence, what all Perl functions and Perl tricks can you think that would make coding easier?

- 3. a) Name the special variables that are in-built in Perl and write one sentence about what it does?
b) Perl is the only language to take advantage of regular expressions (True/False)
- 4. a) What is a hash and how is it declared in perl?
b) What happens to \$x in this statement `$x=int(rand(5));`
- 5. a) What does this line do? `while (<>) {/^(from|subject):/i; print;}`
b) What does this loop do?

```
while (<>)  
{  
s/^(Subject:)\s*(.*)$/ $1 Re: $2/i  
print;  
}
```

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