1. Which of the strings below would match the following regular expression ***[a-z]{2,4}[0-9]?***
   1. AB0
   2. dcba
   3. abcde0
   4. a0
2. Write a regular expression for a string with “a”, then zero or more “b”s and finally optionally a “c”. Examples {“a”, “ac”, “ab”, “abc”, “abb”, “abbc”} ab\*c?
3. Write a string that will match the following Regular Expression. [A-Z]{1,3}\+[0-9]{2,4}

AB+444

1. Which of the following matches Regular Expression ***a(ab)\*a***
   1. abababa
   2. aaba
   3. aabbaa
   4. aba
   5. aabababa
2. Which of the following matches Regular Expression ***ab+c?***
   1. abc
   2. ac
   3. abbb
   4. bbc
3. Which of the following matches Regular Expression ***a.[bc]+***
   1. abc
   2. abbbbbbbbb
   3. azc
   4. abcbcbcbc
   5. ac
   6. asccbbbbcbcccc
4. Which of the following matches Regular Expression ***abc|xyz***
   1. abc
   2. xyz
   3. abc|xyz
5. Which of the following matches Regular Expression ***[a-zA-Z]\*[^,]=***
   1. Butt=
   2. BotHEr,=
   3. Ample
   4. FIdDlE7h=
   5. Brittle =
   6. Other.=
6. Which of the following matches Regular Expression (very )+(fat )?(tall|ugly) man
   1. very fat man
   2. fat tall man
   3. very very fat ugly man
   4. very very very tall man
7. Which of the following matches Regular Expression <[^>]+>
   1. <an xml tag>
   2. <opentag><closetag>
   3. </closetag>
   4. <>
   5. <with attribute=”77”>
8. In C, getting the address of a variable is done with which operator?
   1. &
   2. \*
   3. ->
   4. .
9. In C, getting or setting the value of a variable pointed to by a pointer, also known as dereferencing, is done with which operator?
   1. &
   2. \*
   3. ->
   4. .
10. Why should output that is sent back to a user’s Web Browser be encoded?
    1. To increase the efficiency of transmitting the output data.
    2. So that characters that have a special meaning in a particular context are treated as data and not as injected code.
    3. So that the output appears in the proper language for the end user.
    4. None of the Above
11. Consider the following code

int \*vPtr;

int v[10];

vPtr = v;

\*vPtr = 1;

vPtr += 1;

\*vPtr = 3;

vPtr += 1;

\*vPtr = 2;

What will be the values of the fields of the following Memory Space? (Fill Null if the value is unknown)

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Address | Memory Space |
| int | \*vPtr | 1100 | 1112 |
|  | v[0] | 1104 | 1 |
|  | v[1] | 1108 | 3 |
|  | v[2] | 1112 | 2 |
|  | v[3] | 1116 | null |
|  | v[4] | 1120 | null |

1. Which of the following things should be checked when users create passwords:
   1. Password length of > 15 characters
   2. No dictionary words or common phrases
   3. Alpha, numeric, and special characters
   4. Password not same as last five passwords
   5. All of the above