**Bright International School**

Assignment-1

**S**td :- XII -Science Section – A **S**ub:-Computer Science

| O-1 | **Consider the following statements in Python interpreter and describe the output/statement required.** | |
| --- | --- | --- |
|  | **Print a message “Computer Science”** |  |
|  | a = 20  b = 22  c = a + b  print(c) |  |
|  | **To retrieve the data type of the string “Hello” stored inside the variable ’a’.** |  |
|  | **To describe the data type of variable ‘b’.** |  |
|  | **To retrieve the address of variable a and b.** |  |
|  | **State the output**.  b = 12  >>> d = b  >>> d  >>> b  >>> id (d)  >>>id (b) |  |
|  | **Find the output.**  >>>a = “Hello”  >>> a \* 10 |  |
|  | **To display the value for** a2 , b3 ,c4 |  |
|  | **To swap the value of to variable , a and b , using multiple assignment statements.** |  |
|  | **Evaluate the following expressions.**   1. 16 – 8 \* \* 2 // 6 + 8 2. 80 % 7 \* \* 2 // 8 3. Not 20 > 21 and 6 > 5 or 7 > 9 4. 5 == 3 or 9 < 2 and 2==2 or not 4 > 1 5. Not False and True or False and True |  |
|  | **Give the following Output of the following:**   1. Str1 = ‘Python’   For i in Str1:  print(Str1.upper(i))   1. str1 = “Computer science”   Str1 = lstrip(“Computer”)  print(Str1)  Str1.rstrip(“sea”)  print(Stri1)   1. str1 =’abc@gmail.com’   str1.partition(“@”) |  |
|  | **Write a statement using string function.**   1. To extract a substring “talk” from the string ,str1=”Astrotalk” 2. To count the number of characters in a string ,str1 = “ Python 3.9.0” 3. To change the string str1= “Computer Application “ to uppercase 4. To reverse the string str1= “Artificial Intelligence” using slice operator 5. To join @sign after each character of the string str1 = “Block chain” | c |
|  | **Convert the following for loop into While loop:**  for k in range (10,20,5)  print( k) |  |
|  | **Consider the given string and write output of the following:**  Str1 = “Computer Science”   1. str1[0:3] e. str1[3:6] 2. str1[:7] f. str1[-10 : -3] 3. str1[-7 :: ]\*3 g. str1[1:12:2] 4. str1[:: 3] h. str1[:9: -1] |  |
|  | **How many times is the world ”hello” printed in the following statement?**  s = ‘python rocks’  For ch in s[3:8]  print(‘Hello’) |  |
|  | **Find the output of the following:**  Word = ‘green vegetable’  print(word.find(‘g’,2))  print(word.find(‘veg’,2))  print(word.find(‘tab’,4,15))  print(word.find(‘tab’,4,15)) |  |
|  | **Suppose L= [“abc”,[6,7,8] ,3 ”Mouse”]**  **Consider the above list and write output of the following :**   1. L [3 :] 2. L [::2] 3. L [1:2] 4. L [1]:[1] |  |
|  | **Find the output of the following python code:**  x = “abcdef”  i = “a”  while I in x:  print(I ,end =” “) |  |
|  | **Write the most appropriate list method to perform the following tasks:**   1. Delete a given element from the list 2. Get the position of an item in the list 3. Delete the element from the list 4. Add a single element at the end of the list 5. Add a single element in the beginning of the list |  |
|  | **What is the output of the following.**  x=3  for I in x:  print(i) |  |
|  | **Section – B** |  |
| 1) | **Find error in the following code (if any) and correct the code by rewriting it and underlining the corrections.**  x = int(“enter the value for x:”))  for in range [0 ,11]:  if x=y  print x+y  else:  print x-y |  |
| 2) | **Rewrite the following code in python after removing all syntax error(s).Underline each correction done in the code.**  Value = 30  for VAL in range (0,value)  if VAL%4==0:  print(VAL \* 4)  Elseif VAL%5 ==0:  print (VAL + 3)  Else print( VAL + 10 ) |  |
| 3) | **Rewrite the following code in Python after removing all syntax error (s) .Umderline each correction done in the code.**  30 =To  for k in range (0,TO)  If K%4 ==0  Print(K \* 4)  Else :  Print (K+3) |  |
| 4) | **Write a python function string\_lenth() to calculate the length of a string :’Python program’.** |  |
| 5) | **Write a python function to get a string where all occurrence of its first char have been changed to $ except the first char itself.** |  |
| 6) | **Write python program to remove duplicate from a list.**  **a = [ 10 ,20 ,30, 20, 10, 50, 60, 40, 80, 50, 40]** |  |
| 7) | **Write a Python function to get the Largest number from a list.** |  |
| 8) | **Write a Python function to sum all the item in a list.** |  |
| 9) | **Write a Python function to count and display the vowel of a given text.** |  |
| 10) | **Write a Python program iterate over dictionaries using for loops.** |  |