

ANANDALAYA PERIODIC TEST - 1

Class: XI

Subject: COMPUTER SCIENCE

M.M: 40 : 18/07/2017 Date Time: 2 Hour

Instruction: (1) All questions are compulsory. (2) Programming language: **Python**.

- Q-1 What are data types? What are python's built in data types? (2)(a)
 - Name the function/method required to:

(2)

(3)

- - check if a string contains only lower case letters. (i)
 - gives the total length of the string. (ii)
- Identify and write the name of the module to which the following functions (2)belong:
 - (1) ceil

(2) isupper

(3) sin

- (4) sqrt
- Observe the following Python code very carefully and rewrite it after removing all (3)syntactical errors with each correction underlined.

```
input("Enter a number: ") = x:
if (abs(x) = x):
      print "You Entered a positive number"
Else:
      x * = -1
      print "Number made positive: " x
```

Rewrite the following code in python after removing all syntax error(s). Underline (3)each correction done in the code.

```
Number = INPUT("Enter a Number")
Sum = 0
for C in Range (1, Number + 1);
      Sum += C
      print ( " Sum= ")
print Sum + C
if (C > 10)
      print(" Two digited ", end=' ')
else ( C <= 10)
      print (" Single digited ")
```

Write the output of the following Python code: (f)

a = 12b = 7.4c = 13a -= b c=a-b print(a,b) a *= 2 + cprint(a,b) b += a * ca, b, c = c, b, aprint(b, a)

(g) Find and write the output of the following python code: (2)for Name in ['Jayesh', 'Ramya', 'Taruna', 'Suraj']: print (Name) if (Name[0] == 'T'): break else: print ('Finished!') print ('Got it!') (2)(h) Write the output of the following Python program code: Data=['M','y', '','c', i', 't', 'y', '','C', i', 'e', 'a', 'n', '', 'C', 'i', 't', 'y', '', '.'] for i in range(len(Data)-1): if (Data[i].isupper()): Data[i] = Data[i].lower() elif(Data[i].isspace()): Data[i]=Data[i+1] print (Data) (i) What are the possible outcome(s) executed from the following code? Also specify (2)the maximum and minimum values that can be assigned to variable NUMBER. Import random STRING = "CBSEONLINE" NUMBER = random.randint(0,3) while (STRING[N]!='L'): print(STRING[N] + STRING[NUMBER] + '#', end= ''), NUMBER=NUMBER + 1 N=N-11. ES#NE#IO# 2. LE#NO#ON# 4. EC#NB#IS# 3. NS#IE#LO# Write a python program to read students marks in 5 subject display percentage (4)obtained by a student. Write a python program to read value of N and display first N Fibonacci (4)numbers. Write a python program to read amount invested, rate of interest and time from (4)user and display simple interest. (d) Write a program in python to read a value of N, and display sum of Square of (4)first N numbers. For e.g. if value of N is 5 then Program should display: (e.g. Sum = $1^2 + 2^2 + 3^2 + 4^2 + 5^2 = 55$) Sum = 55The following code contains an endless loop. Can you find out why and suggest a Α (3)solution.

Q-3

```
n = 10
answer =1
while (n > 0):
      answer = answer + n ** 2
       print( answer )
n = n + 1
```

Q-2