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Half Yearly Examination 2019

Duration: 3Hrs.

XI - Computer Science

MM: 70

Advices:

- * The programming language used for question answer is python.
- * Students should strictly follow the python programming concepts.

Section-1: Getting Started with Python		
1(A)	Python programs are saved usingExtension.	1
1(B)	Python programming is Independence language.	1
1(C)	What is difference between interactive mode and script modes in python?	2
1(D)	State some distinguished features of python language. (Any Six)	3
Section-2: Python Programming Fundamentals		
2(A)	Which will the correct output of following code. A="Hello_" print (A * 3) (A) AAA (B)Hello_*3 (C) Hello_Hello_Hello_ (D) Hello_*Hello_*Hello_*	1
2(B)	What will be output of given python code S= "KVS 1621" print (type (S)) (A) KVS 1621 (B) KVS (C) 1621 (D) < class 'str' >	1
2(C)	What will be output of given python code X=15+12*2-7/2 print (type (X)) (A) 50.5 (B) 35.5 (C) No Output (D) 32.5	1
2(C)	What is difference between variable and keyword in python? OR Re-Write the following code by using for loop while num>0: print(num%10) num=num/10	2
2(D)	Write a python program that accepts radius of a circle and print its area. (Hint: Area= PI . R ²)	2
Section-3: Python control Statements		
3(A) are diagrams that show the step to step solutions of a given problem.(Fill in blank)	1
3(B)	Which statement used to create blank statement? (A) empty (B) pass (C) NULL (D) Both (A) and (C)	1
3(C)	Give the output of print statement. A=11 B=3 print (A % B > A // B) (A) True (B) False (C) No output (D) Error in code	1

3(D)	Write a program to print any one of given below pattern <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <pre>1 1 2 1 2 3 1 2 3 4 1 2 3 4 5</pre> </div> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <pre>1 1 0 1 0 1 1 0 1 0 1 0 1 0 1</pre> </div> </div>	2
3(E)	Find the syntax error in given below python program. Write the correct code of error code. Code=input("Enter season code: ") if code=w: print("Winter Season") elif(code=r): PRINT (Rainy Season) else: print("Summer Season")	2
3(F)	Write a python program that takes an integer number as input and print the following. (A) Sum of digits (B) Count of digits	5
Section-4: Strings Manipulation in Python		
4(A)	What is string in python?	1
4(B)	What is full form of ASCII?	1
4(C)	What will be output of following python code snippet? x="AmazingKVians" print(x[3:], " and" x[:3]) print(x[::-1], " and" x[-10:-2])	2
4(D)	Write a program in python that reads a line of string and counts the number of words in line.	3
4(E)	Write a program in python to check whether the string is a palindrome or not.	3
Section-5: List Manipulation in Python		
5(A)	Fill the blank space with appropriate word. Lists are, you can edit or update the list.	1
5(B)	The method (function) used to delete element from a list , if index is known.	1
5(C)	Write output of given code Lst=["RINKU" , "ANKIT" , "LEELA" , "ADI" , "MASTU" , "TINA" , "KAVYA" , "AMAR"] Count=0 for S in Lst: if (S[0] in ('A')): count+=1 print("Appearing " , count, " times")	2
OR	What is similarity and difference between string and list? Write 2 points for each.	
5(D)	Write a program to calculate the mean of numbers given in list.	3

5(E)	A list Num contains the following elements. Num=[3,25,13,6,35,8,14,45] Write a program to sort the elements in ascending order by using Bubble Sort. (Note: you should not use sort() for solution.)	5
Section-6: Computer System Organization		
6(A)	Name two components of CPU?	1
6(B)	What does a “bus” mean in Computer system?	1
6(C)	Identify the related features of RAM or ROM in given below features. (i) Non- volatile Memory (ii) Content can't be changed. (iii) Volatile memory (iv) Bigger in size than other	2
6(D)	Describe the basic architecture and functioning of computer.	3
6(E)	Define the following. (i) Compiler (ii) Interpreter (iii) Assembler (iv) Cloud Computing (v) Booting	5
Section-7: Data Representation and Boolean Algebra		
7(A)	Write full form of ISCII.	1
7(B)	Which type of values stored in Boolean variables?	1
7(C)	Which is not a type of gate. (i) AND (ii) DAND (iii) OR (iv) NOR	1
7(D)	What is Unicode and how it is useful?	2
7(E)	Convert the $(101001)_2 = (\dots\dots\dots)_{10}$	2
7(F)	(i) Draw the Boolean diagram for following Boolean expression. $P=(A+B'+C'+D)$ (ii) Verify the Boolean expression by using truth table. $X+Y.Z = (X+Y) . (X+Z)$	3