Blue Print of Weekly Test

Class XI

Subject: Computer Science

S. NO	Types of Ques	No. Of Ques	Marks for each Ques	Total Marks			
1	V. short ans type ques	4	1	4			
2	Short ans type ques	7	2	14			
3	short programs	8	3	24			
((including error and output question)							
5	Long Programs	2	4	8			

Total Marks: 50

DELHI PUBLIC SCHOOL, BAHDURGARH First Terminal Exam Sample paper

Class: XI M.M:70

Max. Time: 3 hrs Sub:Computer Science No. Of Pages: 2

Instructions:

1. Attempt all the questions.

- 2. Marks are indicated against each question.
- 3. Attempt the paper neatly and sketch the line after completing each part.

Q-1 [22]

- a) What do you mean by Softwares? Draw the softwares classification chart. [2]
- b) Identify and discuss characteristics and uses of [2]
 - a. Personal Digital computers
 - b. Embedded Computers

 c) Draw the block diagram of the physical IOCS. d) Differentiate between a. Utility and customized software b. Assembler and interpreter c. Disk compressor and Disk defragmenter 	[2] [2*4=8]			
d. Preemptive Scheduling and Non Preemptive Scheduling e) Convert the following : a. $(77.75)_8$ to $()_2$ b. $(10100.0101)_2=(?)_{16}$ c. $(EB4A)_{16}=()_{10}$	[2*3=6]			
f)Find the eight bit two's complement form of the given decimal numbers a96 b.87	[2]			
 Q-2 a) Evaluate c= a++ + ++b if a=10 and b=5 initially. b) What do you mean by primary memory? Name its two types. c) Define tokens in python? Name any two tokens of python. d) What are Literals? Give any two examples of it? e) What do you mean by functions? Explain its types. f) Differentiate between parameters and arguments. g) What do you mean by a variable? How it is initialized in python? h) Differentiate between input() and raw_input() with examples? 	[15] [1] [2] [2] [2] [1+2=3] [2] [2] [2]			
Q-3	[15]			
 a) Evaluate the following expressions: a. x-y < z &&y+z> x x-z <=y- x +z if x=5, y=7 and z=12 b. F=(b++)*a -b+ ++a if a=2, b=3 	[1.5*2=3]			
 Differentiate between pre decrement operator and post decrement operator example for each. 	erator? Give suitable [2]			
c) Discuss the role and importance of logical operators? Name all logical operators.d) What is the difference between single line string and multi line string? Explain by give examples in python?				
e) What is the difference between Type casting and type promotion? Gif) Write any three differences between mutable and immutable datatype	•			

Q-4 Write the given Programs in Python.

[18]

a) WAP to find the first five multiples of a given number. Write separate UDF of it. [4] b) WAP to compute the series $1+x^2+x^3+x^4+x^5$ [4] c) WAP in python to find the percentage of a student after asking the marks in 5 subjects. Assign the grade according to the given pattern. [5] Per >= 90 and per <= 100grade='A' grade='B' Per > = 80 and per < 90grade='C' Per>=70 and per <=60 grade='D' Per<60 d) WAMDP to find the maximum and minimum number out of the given number. Write separate UDF for maximum and minimum. Χ----------Χ

DELHI PUBLIC SCHOOL, BAHDURGARH

Final Exam Sample Paper 1

Class: XI M.M:70
Max. Time: 3 hr Sub: Computer Science No. of pages:2

Instructions:

- 4. Attempt all the questions.
- 5. Marks are indicated against each question.
- 6. Attempt the paper neatly and sketch the line after completing each part.

Q-1 [22] f) Write any two advantages of Python language. [1] g) Write any one difference between interpretation and compilation. [1] h) Python is a free and open source language. What do you understand by this feature? [1] i) What is case sensitive feature? Is python case sensitive language? [.5+.5=1]j) Define the given token- keywords [1] k) What is the difference between "\n" and "\t" in Python. [.5+.5=1]1) Draw a flowchart to find the sum of first 20 natural numbers. [2] [2*3=6]m) Differentiate between the following. Write any two points.

b. Logical error and syntax error c. Adaptive maintenance and preventive Maintenance n) Solve the following by writing python program code: [2*3=6]a. To calculate area of triangle having length 20, breadth 25 and height 30.8cm. b. To calculate perimeter of rectangle by assuming required values. c. To obtain temperature in Celsius and convert n Fahrenheit using formula c*9/5+32=F. f) What is string and how to create multiline string in Python? [1+1=2]0-2[15] i) What is the output of the following code? [1+1=2]1) x, y = 2, 6x, y=y, x+2print x,y 2) R = 2.5 + 3.9iPrint R.real Print R.imag j) What is the difference between '/' and '//' operators in python. Explain with example. [1] k) What will be the output of following statement when the inputs are: [1] a. A=10, b=23, c=23Print a < b < = cWhat is type conversion(coercion)? How does python perform it? [2] [2] m) What do you mean by pure arithmetic Expression? Give one example of it. n) What do you understand by the term 'immutable' in python? Give example. [1+1=2]o) How len() function is used in python? Explain with example? [1+1=2]p) How many key attributes are associated with each python object? Explain all with example? [1+2=3]**Q-3** [15] g) What will be the output of the following code: [1*2=2]a. D=3+5/8 print D b. Unicode (0) h) Reema is confused between a+b and a+=b. Help her to know the difference between two expressions. [1] i) Evaluate and justify the statement in python: false AND 23 [1] i) What is the difference between a)20 and 20 L b) 'a' and u'a'? [1+1=2]k) Define function in python and explain its types. [1+2=3]1) What is the purpose of namespace in python? [1] m) What is the utility of python standard library's math module and random module? [2] n) Write any one difference between string and list. [1]

a. Comments and indentation

o) Which names are local, which are global and which are built in function in the following code fragment? [2] Invaders='big names' P = 200Level=1 Def play(): $Max_level = level + 10$ Print len(invaders) = = 0return Max_level res=play() print res Q-4 Write the following programs. [18] e) WAUDF in Python which receives two string arguments and checks whether they are same length strings or not . It should return 1 in case of true otherwise 0. [2] f) WAP in Python which reads a number as argument and calculates cube for it. The function does not return a value. If there is no value passed to the function call, the function should calculate cube of 2. It means default parameter value is 2. [2] g) WAP to print which reads a character and checks and prints whether it is digit, upper case or lowercase character. [2] h) WAP in python to evaluate the given sequence: [2] x-2x/2! + 3x/3! - 4x/4! + ---- n terms i) WAP which reads a string and checks its for palindrome. [2] j) WAMDP in python to read a number and find its factorial and sum of digits of that number according to user's choice. [4] k) WAMDP which performs the addition, deletion, sorting and modifying operation in a given list according to users choice. [4]

DELHI PUBLIC SCHOOL, BAHDURGARH

Sub: Computer Science

Class: XI

Max. Time: 3 hr

7. Attempt all the questions.

Instructions:

Final Exam Sample Paper 2

M.M:70

No. of pages:2

8. Marks are indicated against each question. 9. Attempt the paper neatly and sketch the line after completing each part. Q-1 [22] o) Write any two disadvantage of Python language. [1] p) "Python is an interpreted high level language". What does it mean to you? [1] q) What does a cross platform means? [1] r) Define the given token- Literals [1] s) What is case sensitive feature? Is python case sensitive language? [1] t) What is the difference between "\b" and "\t" in Python. [1] u) Draw a flowchart to find the sum of first 50 natural numbers. [2] v) Differentiate between the following. Write any two points. [2*3=6]a. Comments and indentation b. Compile error and syntax error c. Flow chart and algorithm w) Solve the following by writing python program code: [2*3=6]a. To calculate area of triangle having length 30, breadth 55 and height 20.8cm. b. To obtain temperature in Fahrenheit and convert in Celsius using formula c*9/5+32=F. c. To calculate Simple Interest by assuming required values. f) What is string and how to create multiline string in Python? [1+1=2]Q-2 [15] q) What is the output of the following code? [1+1=2]x, y = 4, 63) x, y=y, x+4print x, y 4) R = 3.5 + 3.9iPrint R.real Print R.imag r) What is the difference between '*' and '**' operators in python. Explain with example.[1] s) What will be the output of following statement when the inputs are: [1] a. A=15, b=33,c=23 Print a < b < = ct) What is type casting? How does python perform it? [2]

		u) What do you mean by mixed arithmetic Expression? Give one example of it.v) What do you understand by the term 'mutable' in python? Give example.w) How type() function is used in python? Explain with example?x) What are formal and actual arguments? Explain with example?	[1+1=2 [1+1=2 [1+1+1	2]		
Q- :	3		[15]			
	p)	What will be the output of the following code: a. C=3+float(5/8) print C b. Unicode (true)	[1*2=2	2]		
	q)	Seema is confused between a*b and a*=b. Help her to know the difference between	en two			
	-	expressions.	[1]			
	r)	Evaluate and justify the statement in python: True AND 55	[1]			
	s)	What is the difference between a)50 and 50 L b) 'd' and u'd'?				
	t)	Define user defined functions in python and explain with syntax and example.	[1+2=3]	3]		
	u)	What is the utility of python standard library's math module and random module?		[2]		
	v)	What is the purpose of Dictionary in python?	[1]			
	w)	Write any one difference between Tuple and list.		[1]		
	x)	Which names are local, which are global and which are built in function in the following code				
		fragment?		[2]		
		Inc= 'small names'				
		Pin= 500				
		L=1				
		Def play():				
		$Max_level = L + 10$				
		Print len(inc) = $= 0$				
		return Max_level				
		result=play()				
		print result				

Q-4 Write the following programs.

[18]

1) WAUDF in Python which receives two string arguments and finds the length of both strings. Display the total length of both strings. If it is greater than 10 then return 1 otherwise 0.

[2]

m) WAP in Python which reads a number as argument and calculates square for it. The function does not return a square value. If there is no value passed to the function call, the function should calculate cube of 2. It means default parameter value is 2. [2]

- n) WAP to print which reads a string and prints total number of digit, upper case or lowercase characters given in a string. [2]
- o) WAP in python to evaluate the given sequence: [2]

1-
$$x/2! + x/3! - x/4! + \dots$$
 n terms

- p) WAUDF which takes a string as argument and checks its for palindrome. If it is palindrome then return 1 else 0. [2]
- q) WAMDP in python to read a number and find its factorial and display fibonacci series till n no of terms according to user's choice. [4]
- r) WAMDP which performs the deletion sorting and modifying operation in a given list according to users choice. [4]

_____X____X