	KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION		
CLIDIECT	HALF YEARLY - Examination - 2018  : COMPUTER SCIENCE CLASS		ΧI
TIME	: 3 HRS. Max. M		70
Instruction		arks .	70
	estions are compulsory.		
-	imming Language to be Python		
Q.1			
(a)	Give full form of :- EPROM, VDU	-	1
(b)	1 GB = KB	-	1
(c)	What are the sub- components of mobile processor ?	-	1
(d)	Secondary memory is also known as ?		<del>-</del> 1
	· · · ·		<u> </u>
(e)	Differentiate between RAM and ROM.		2
(f)	Explain types of software.		2
Q.2			8
(a)	Do the following conversions:	4	4
	i) $(372)_8 = (?)_{10}$ ii) $(FACE)_{16} = (?)_2$		
	iii) $(7ACE)_{16} - (?)_2$ iii) $(10110.0101)_2 = (?)_{16}$		
	iv) $(43)_8 = (?)_2$		
(b)	Add the binary numbers i) 111011 and 11 ii) 11.01 and 101.11		2
(c)	Write name of two Indian Script.		 1
(d)	Expand UTF		<u>-</u> 1
Q.3	Expand off		<u>-</u> 8
(a)	What is tautology ?		1
(b)	What are universal gates ?		_
	•		1
(c)	Prove that X.(X+Y) = X algebraically.		2
(d) ( e)	State and prove absorption law.  Draw the circuit diagram for :- A.(B+C') using logic gates.		2 2
Q.4	Draw the circuit diagram for :- A.(b) C / dsing logic gates.	- +	<u>2</u> 8
(a)	What is the purpose of registers in CPU ?	-	1
(b)	What is FCFS?	-	1
(c)	What is cloud computing ?	:	2
(d)	What are the steps in the compilation process ?		2
(e )	What is the difference between linker and loader parts of a compiler?		2
Q.5	·		10
(a)	What do you mean by cross platform language ?		1
(b)	What is the error in following Python Program ? Suggest a solution		<u>-</u> 1
` ,	print("Your number is", num)		
(c)	Write one advantage and one disadvantage of python.		1
(d)	What will be the output of following code :		1
	one = "Computer"		
	two = "Science"		
	print(one + two)		
(e)	Write output for the following :-		2
	X=10 V=X+5		
	Y=X+5 Z=Y +5		
	Z=Y +5   print(X,Y,Z)		
(f)	What are tokens in python ?		2
(g)	What is dynamic typing?		 2

Q.6		:	10
(a)	What do you mean by term "immutable" ?	2	
(b)	What is type promotion in python ?	2	
(c)	Write a program in python to find area of rectangle.	2	
(d)	Write a program in python to find sum of first natural numbers	2	
(e)	Draw a flow chart to find greater number out of two numbers.	2	
Q.7			8
(a)	What will be the output of :- S= "Hello World"	2	
	print(s[:7] print(s[2:5])		
	<pre>print(len(s)) print(s.isdigit( ))</pre>		
(b)	Write a python program to enter a name and print like Hello <yourname></yourname>	2	
(c)	What are compile time errors ?	2	
(d)	What is code tracing ?	2	
Q.8			10
(a)	What is the difference between append() and extend() function of a list?	2	
(b)	Write a program in python to prepare a list of numbers and sort it.(any method)	2	
(c)	Write a program in python to find the maximum value in a tuple.	2	
(d)	How are dictionaries different from lists ?	2	
(e)	What will be the output :-	2	
	e={'a':1,'b':2}		
	i) len(e)		
	ii) e.get('b')		