

**KENDRIYA VIDYALAYA SANGATHAN**  
**LUCKNOW REGION**  
**HALF YEARLY EXAMINATION (2018 - 19)**  
**COMPUTER SCIENCE (083)**  
**CLASS: XI**

**M.M.: 70**

**TIME: 3 HRS**

*General Instructions:*

- All the questions are compulsory
- Answer the question after carefully reading the text
- Programming language is Python

1 (a).	What are Major Functional components of computer?	[1]
(b).	Why RAM is called as volatile memory?	[1]
(c).	1GB= <u>1024</u> MB	[1]
(d).	Expand the Terms EEPROM, PROM.	[1]
(e).	Name any two Operating Systems used in mobile.	[2]
(f).	What do you mean by permanent storage? Name any two secondary storage devices.	[2]
(g).	Classify the following devices into Input and Output Devices Speaker, Plotter, Pen drive, HDD, Scanner, Printer	[2]
2 (a).	How keywords are different from identifier?	[1]
(b).	Give any two features of python programming language?	[1]
(c).	What is Interactive Mode in Python?	[1]
(d).	What is a comment? In how many ways can you create comments in Python?	[2]
(e).	Write differences between single line string and multiline string.	[2]
(f).	Identify and categorise valid and invalid identifiers from the followings— (i)Print (ii)calc_area (iii)val 1 (iv)pass	[2]
(g).	Differentiate % and / operators of python.	[1]
3 (a).	Name any two literals in Python?	[1]
(b).	When we write a statement like a,b,c,d=5,6,7,8. What we give name to this statement? What value is stored in each variable?	[2]
(c).	What is unary operator? Give an example.	[1]
(d).	What is the difference between / and // operator in Python.	[2]
(e).	Explain if elif else statement with the help of example.	[2]
(f).	State the similarity & difference between while and for loop?	[2]
4 (a).	What are compound statement in python? Explain with the help of example.	[2]
(b).	Differentiate between list and tuples in python.	[2]
(c).	Differentiate between == and is operators. Explain with the help of example.	[2]
(d).	What do you understand by decision tree? Explain with the help of example.	[2]
(e).	What is debugging? Name any two bugs arises in python while writing a program?	[2]

5 (a).	Explain syntax error with the help of example.	[2]								
(b).	Write a line of code that creates a variable called "Pi" and sets its appropriate value.	[2]								
(c).	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. for Name in [Amar,Shveta,Parag] IF Name[0]='S': print(Name)	[2]								
(d).	How are following two expressions different? (i). a=8      (ii). a= =8	[2]								
(e).	Find and write the output of the following python code : list = [ 'abcd', 786 , 2.23, 'john', 70.2 ] print list print list[0] print list[1:3] print list[2:]	[2]								
6 (a).	Rewrite the following code fragment using for loop: i=100 while(i>0): print(i) i-=3	[2]								
(b).	Write a program that ask you to input three integer numbers calculate and display their sum and average.	[2]								
(c).	Write a program that ask you to input three integer numbers, find and display greatest and smallest out of them.	[4]								
(d).	Write a program that ask you to input five subjects marks and display total and Grade according to given table.	[4]								
	<table border="1"> <thead> <tr> <th>Marks</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>&gt;=90</td> <td>'A'</td> </tr> <tr> <td>&gt;75 - &lt; 90</td> <td>'B'</td> </tr> <tr> <td>&lt;=75</td> <td>'C'</td> </tr> </tbody> </table>	Marks	Grade	>=90	'A'	>75 - < 90	'B'	<=75	'C'	
Marks	Grade									
>=90	'A'									
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(e).	Write a program that ask you to input an integer number, and check if it is palindrome or not( e.g, if user inputs 121 then program should print the reverse of given no, is also same).	[4]								
(f).	Write a program that will print prime numbers from 2 to 100.	[4]								

