SAMPLE PAPER

SESSION ENDING EXAMINATION – [2018-19] INFORMATICS PRACTICES (065)

CLASS – XI

TIME: 3 HRS.

MAXIMUM MARKS: 70

1.	Ictions: All questions are compulsory. Programming Language : Python PROGRAMMING AND COMPUTATIONAL THINKING: BASIC COMPUTER ORGANISATION	10		
a)	What are the functional components of a mobile system? Explain with a block diagram.	[2+1]		
b)	Expand the following abbreviations : EEPROM, DRAM, ALU, SoC			
c)	What do you mean by Tracks and Sectors in the context of Hard Disks?			
d)	Fill in the blanks:	[2] [1]		
,	(i) 1 Giga Byte = Kilo Byte			
	(ii) bits = 1 Nibble			
e)	Differentiate between :	[2]		
	(i) CU and ALU			
	(ii) APU and GPU			
2.	PROGRAMMING AND COMPUTATIONAL THINKING: BASICS OF PYTHON PROGRAMMING	10		
a)	Name two Python Software Libraries and their uses.	[2]		
b)	Write any two features of Python.	[2]		
c)	Differentiate between tuple and list.	[1]		
d)	Cite examples for each type of comments.	[1]		
e)	Re-write the following program code after removing error if any:	[1]		
-/	Num = input("Enter a number : ")			
	Sqr = Num * Num			
	Print (Sqr)			
f)	Find output of the following program code:	[1]		
,	Name = "Kendriya"			
	Count = '8'			
	print("Result=",Name+Count)			
g)	Identify the data types of the following values:	[2]		
	i) "215"			
	ii) 3j			
	iii) (48.2, 4.1, 2.0)			
	iv) [8, 200, 47, 6]			
3.	PROGRAMMING AND COMPUTATIONAL THINKING: BASICS OF PYTHON PROGRAMMING	10		
a)	Write a python program to take input of three of 3 angles and display whether they form a	[2]		
	triangle or not.			
b)	Re-write the following code using while loop:	[1]		
	for a in (2,7,2):			
	for b in (1,a):			
	print(b, end= '\$')			
	print()			
c)	Write a program to print the following pattern	[2]		
	*			
	* *			

d)	Find the output of the following program code:	[1]		
	aDict = { 'Bhavna':1, "Richard":2, "Firoza":10, "Arshnoor":20 }			

	temp = " "				
	for key in aDict:				
	if temp < key:				
	temp = key				
	print (temp)				
e)	Draw a flowchart for solving the following problem:			[2]	
	Find the product of all the even natural numbers upto N where N is a positive integer.				
f)	Prepare a decision tree for the following table of rules:				[2]
		MARKS	DIVISION		
		>=60	FIRST		
		50-60	SECOND		
		40-50	THIRD		
		<40	FAIL		
4.	DATA HANDLING	– PART1			10
a)	Name the standard missing data marker used in pandas with suitable example.				
b)	Differentiate dataframe and series with the help of suitable example.				
c)	Write a python panda program to create series of 10 even numbers.				
d)	Find the output fo	r following code:			[2] [2+2]
	(i)				
	>>>df=pd.DataFra	me({'animal':['alligator', 'b	ee', 'falcon', 'lion', 'mon	key', 'parrot', 'shark',	
	'whale', 'zebra']})				
	>>>df.head(3)				
	>>>df.tail(3)				
	ii)				
	import pandas as pd				
	data =[['Alex' , 10],['bob',12],['Clarke',13]]				
	df=pd.DataFrame(data,columns=['Name','age'])				
		data,columns=['Name','ag	e'])		
	print (df)		e'])		
5.	print (df) DATA HANDLING	– PART2			[10]
5.	print (df) DATA HANDLING Find the largest a	– PART2 and smallest numbers in	a list.		2
5.	print (df) DATA HANDLING Find the largest a	– PART2	a list.		
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d) Write SQL commands for the following table MOVIE: NO TITLE TYPE RATING SEATS_LEFT PRICE 1 SANUU BIOPIC A 4 250 2 RAID ACTION B 2 175 3 RACE3 ACTION C 7 245 4 HAAMI COMEDY A 3 130 5 BAHUBALI DRAMA A 3 300 6 AVENGER ACTION A 2 320 7 PARMANU THRILLER B 2 120 8 INCREDIBLES ANIMATION B 2 350 9 HITCHKI SOCIAL C 1 90 10 TITANIC ROMANTIC A 5 280 ii) Display the list of all movies with price over 200 rupees and sorted by rating. ii) Display the number of seats left for action movies. iv) Delete all the movies from the table with rating 'C'. iii) Display the number of seats left for action movies. iv)				
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e) Nivedita has recently shifted to a new city and a new school. She does not know many peo	[1]			
Nivedita has recently shifted to a new city and a new school. She does not know many people in her new city and school. But every time she goes online she finds someone chasing her online.a. What is this happening to Nivedita? b. What action should she take to stop them?				
f) What are cookies?	[1]			
g) Write name two common social networking sites.	[1]			
 Write any two measures that one should take to avoid and maintain confidentiality of personal information. 	[1]			