## The transmission which on equations with the 42.50 - 30, will be treated as majoractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the generaling block rage:

## CBCS Scheme Control

US	N				16/17MCA2	
		Second Semest	ter MCA Degree F	Examination, June/	July 2018	
			Python Prog			
T	Time: 3 hrs.				Max. Marks: 80	
		Note: Answer FIVE	full questions, choosing	g one full question from c	each module.	
			Module Module	·-1		
1		How does a compute	r run a python program?	Explain with a neat diagr	am. (06 Marks)	
	b.	Predict the output of	the darpar of the following code.			
		iii) 'H20' * 3		uter' + 'Application'		
	c.		IV) max(2,	-3, min(4, 7), -5)	(04 Marks)	
			Augmented statement	iii) Comment in pytho	\n \( \lambda \)	
			Same a source mone	m) Comment in pythe	on (06 Marks)	
_			OR			
2	a.	Discuss the usage of	the following with respe	ct to the print() function:	63	
	6	i) sep argument	ii) end argument	iii) format	(06 Marks)	
23	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	>>>degree_cels	the memory model of $v$	variable in python for the f		
	ું દે.	Give the syntax of	a user-defined function	in python and explain	the world side	
송화		example.		in python and explain	(06 Marks)	
,".					SON SON MAIRS)	
3	a.	a. Input an array of a numbers and S				
3	a.	and negative numbers.				
	b.	Using string method,	write an expression that	produces:	(06 Marks)	
		i) The number of o'	s in tomato			
		ii) The index of first	occurrence of 'o' in tom	nato.		
		iii) A copy of 'master	capitalized	· When		
	c.	Write a note on: i) Sho	day" with the leading wh		(04 Marks)	
		on ij on	one circuit evaluation	i) Comparing strings	(06 Marks)	
			OR	<i>\$</i>		
4	a.	Define module. What	are the two ways of imp	orting a module? Explain.	(08 Marks)	
	b.	methods with an exam	e the general form of a	method call and explain	the following string	
		i) islower()	ij) swapcase()	***		
		iv) find(s)	v) count(s)	iii) strip()	(00.15.1)	
		, ,			(08 Marks)	
_		· · · · · · · · · · · · · · · · · · ·	Module-	<u>3</u>		
5	a. b.	Write a python prograi	m to search an element u	sing linear search.	(08 Marks)	
	υ.	an expression that proc	ina', 'Apple', 'Grapes',	'Mango']. Using the con	cept of slicing write	
		i) First item of fruits	ruces the following:			
		ii) Last item of fruits				
		iii) The list ['Banana',	'Apple', 'Grapes']			
		iv) The list ['Grapes',	'Mango']		(04 Marks)	
	c.	write a note on process	sing parallel lists using i		(04 Marks)	
		*/	1 04	t <i>)</i>		

l of 2

(04 Mark

OR Using loops, print the following pattern: **PPPPP PPPP** PPP PP (04 Marks) b. Explain the following list methods with example: (08 Marks) iv) reverse () ii) insert (i, v) (Siii) remove (v) i) extend (v) c. Predict the output of the following code: >>> S = 'C3H7'>>> total = 0>>> count = 0>>> for i in range (len (s)): if s[i].isalpha(): continue total = total + int (s[i]) count = count + 1(04 Marks) >>> print (total, count) Module-4 How can we use 'with' statement while opening a file? Explain. (04 Marks) Differentiate between tuples and sets based on their mutability, orderedness and uses. (04 Marks) Predict the output of the following and explain. Given lows =  $\{0, 1, 2, 3, 4\}$ odds  $-\{1, 3, 5, 7, 9\}$ ii) lows and odds i) lows-odds (08 Marks) iv) lows odds iii) lows <= odds OR Write a Python program to read a word and print the number of letters, vowels and 8 (08 Marks percentage of vowels in the word using dictionary. b. Write a python program for the following file operations. Press 1: Open file in read mode Press 2: Open file in write mode Press 3: current position of file pointer Press 4: Reposition the pointer at the beginning. (08 Marks (06 Marks Write a note on: i) isinstance () iii \_\_ init\_\_() 9 Write an object-oriented program to create 2 time objects: current time and bread\_time which contains bread baking time. Include addTime method to display the total time take (10 Marks) by the bread maker to prepare a bread. OR (06 Marks) Write a note on the usage of the module tKinter. 10 a. (06 Marks) Explain any six tKinter widgets. c. Write a tKinter program to design a GUI window that has a label of background color gree

and foreground color white.