CBCS SCHEME

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Z	CALL STATE OF THE	Hifth Semester B.E. Degree Examination, Feb./Mar. 2022	
101	CI	AR Application Development using Python	
Ti	me:	Max. Marks: 10	0(
	1	ote: Answer any FIVE full questions, choosing ONE full question from each module.	
		Module-1	
1	a.	Write a Python program to calculate the area and circumference of a circle Input the value	of
		radius and print the results. (06 Mar	ks)
	b.	Explain with example code snippets, different syntax of range() function in Python.	
	0	Discuss local and global scope of variables in Python Illustrate different scenarios, with	
	c.	example. (08 Mar)	
		Champie.	ikis)
		OR	
2	a.	Demonstrate the use of break and continue keywords using a code snippet. (06 Mar	
	b.	List and define the use of comparison operators in Python. Write the output for the following	ng
		expression in Python: i) 2 * *3	(axl
	c.	What is user defined function? Write a function to check if a given number is a prime or n	
	-	(08 Mar)	ks)
		Module-2	
3	a.	What is a List? Explain the methods that are used to delete items from the list. (08 Mark	ks)
J		Write a program to take a sentence as input and display the longest word in the give	
		sentence. (06 Mar)	ks)
	c.	How is the dictionary different from list? Assume a dictionary containing city a	nd
		population as key and value respectively. Write a program to traverse the dictionary a	nd
		display most populous city. (06 Mar)	KS)
		OR	
4	a.	Explain the following string methods with example:	
		i) join() ii) islower() iii) strip() iv) center(). (08 Mar)	
	b.	Write a program to create a list of number and display the count of even and odd numbers the list.	III
	- Control of	the list. If S = 'Hello World', explain and write the output of the following statements:	Ko)
	G.	1) S[1:5] ii) S[5] iii) S[3: -1] iv) S[:] (06 Mar)	ks)
		Module-3	
5	a.	What is a regular expression? Explain the process of finding patterns of text with regu	lar
3	a.	expressions and associated methods in Python with an example. (08 Mar)	ks)
	b.	Explain the following patterns matching capabilities in python with suitable progra	am
		snippets:	
		i) Grouping with parentheses	
		ii) Matching multiple groups	
		iii) Matching one or more. (06 Mar)	KS)
	C.	Explain the following file operations in Python with suitable examples:	
		i) Copying files and foldersii) Moying files and folders	
		ii) Moying files and folders iii) Permanently deleting files and folders. (06 Mar.	ks)
		and the same of th	

OR

Explain with a suitable Python program how findall() is different from search() method. State the purpose of any four short hand character classes with examples. (08 Marks) What is the difference between OS and OS path modules? Discuss the following four methods of OS module: i) chdir() ii) walk() iii) listdir() iv) getcwd() (06 Marks) c. With code snippets, explain reading, extracting and creating ZIP files in Python. (06 Marks) Module-4 7 What is class? How do we define class? How to instantiate the class and members are b. Write a Python program to add and multiply two complex number objects using operator overloading concepts. (06 Marks) Discuss type-based dispatch in a Python. (06 Marks) OR Explain init and str _ methods, with an example. (08 Marks) What is pure function? Illustrate the same with an example. (06 Marks) Explain concept of polymorphism with suitable example. (06 Marks) BANGALORE - 560 037 Module-5 What is Web Scraping? Explain the process of downloading the file from web and saving downloaded files. (08 Marks) Explain the process of reading cells from EXCEL sheets. (06 Marks) c. With a code snippet, discuss how to change the text style of .doc file using paragraph and run objects. (06 Marks) How do we extract, decrypt, copy and encrypt PDF files in Python. (08 Marks) Discuss the process of creating a beautiful soup object and finding an element from HTML. (06 Marks) With an example, illustrate the use of JASON module in Python. (06 Marks)