

End-Term Examination
(CBCS)(SUBJECTIVE TYPE)(OffLine)
Course Name:<B.Tech (ECE-AI) >, Semester:<2nd >
(July, 2023)

Subject Code: BAI-110	Subject: PROGRAMMING WITH PYTHON	Maximum Marks :60
Time :3 Hours		
Note:Q. 1 is compulsory. Attempt one question each from the Units I, II, III & IV.		

		(2.5*8=20)
Q1		
(a)	Differentiate between mutable and immutable objects in Python language with proper examples.	
(b)	How do you handle the exception inside a program when you try to open a non-existent file?	
(c)	Find and write the output of the following python code: TXT = ["20", "50", "30", "40"] CNT = 3 TOTAL = 0 for C in [7,5,4,6]: T = TXT[CNT] TOTAL = float(T) + C print(TOTAL) CNT -= 1	
(d)	What is the purpose of break statement in Python. Explain with an example.	
(e)	Write the output of the following Python program code: def ChangeList(): L=[] L1=[] L2=[] for i in range(1,10): L.append(i) for i in range(10,1,-2): L1.append(i) for i in range(len(L1)): L2.append(L1[i]+L[i]) L2.append(len(L)-len(L1)) print(L2) ChangeList()	
(f)	Explain recursion in python with suitable examples.	
(g)	Observe the following code and answer the questions that follow: (1) File = open("Mydata","a") _____ #Blank1 File.close() (i) What type (Text/Binary) of file is Mydata? (ii) Fill in Blank 1 with a statement to write "ABC" in the file "Mydata".	
(h)	Define string. Write a Python program to calculate the length of a string?	

UNIT-I

Q2	What is the difference between if-else and while loop? What are local and global variables in python? Explain in details.	(10)
Q3	What operators does python support? Briefly describe all the operators. Give suitable examples.	(10)

UNIT-II

Q4	Mention the features of lists in python. What is a tuple? Differentiate between list and tuple. Explain with an example.	(10)
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Q5	How do you create a string in Python? Write a program to check whether an entered string is palindrome or not.	(10)
UNIT-III		
Q6	Answer the following questions. a) Explain the different types of Exceptions in Python. b) Describe Handling Exceptions in detail with examples.	(10)
Q7	What is meant by directory? How and where is it useful? Support the answer with suitable examples.	(10)
UNIT-IV		
Q8	Write a program to enter a number in Python and print its octal and hexadecimal equivalent. Briefly explain the different packages widely used in Python and their usage.	(10)
Q9	What is tkinter? What is tkinter used for in Python? Explain different GUI libraries used .	(10)