

--	--	--	--	--	--	--	--

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART - III	CORE-1	U23CS101	PYTHON PROGRAMMING

Date & Session: 07.11.2025/FN

Time : 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	Which of the following is not a feature of Python? A) Easy to learn B) Platform dependent C) Interpreted language D) Dynamically typed
CO1	K2	2.	Which of the following functions is used to get input from the user in Python? A) read() B) scan() C) input() D) gets()
CO2	K1	3.	Which of the following statements is used to exit from a loop in Python? A) stop B) exit C) break D) quit
CO2	K2	4.	How many times will the following loop execute? for i in range(3): print(i) A) 2 times B) 3 times C) 4 times D) Infinite times
CO3	K1	5.	Which keyword is used to define a function in Python? A) func B) define C) def D) function
CO3	K2	6.	Which of the following is a valid string method in Python? A) upper() B) capitalize C) replace() D) All of the above
CO4	K1	7.	Which of the following is an immutable data type in Python? A) List B) Tuple C) Dictionary D) Set
CO4	K2	8.	What will be the output of the following code? d = {'a':1, 'b':2} print(d['b']) A) a B) b C) 1 D) 2
CO5	K1	9.	Which method is used to write a string into a file in Python? A) write() B) writelines() C) print() D) writefile()
CO5	K2	10.	What does the with keyword do in file handling? A) Opens multiple files B) Ensures proper closing of the file automatically C) Used for reading binary files D) Reads lines without newline characters

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	11a.	What are the key features of Python? How is Python different from other programming languages? (OR)
CO1	K3	11b.	Explain different types of operators in Python with examples.
CO2	K3	12a.	Write a Python program to find the largest of three numbers using conditional statements. (OR)
CO2	K3	12b.	Explain the use of break, continue, and pass statements in loops with suitable examples.
CO3	K4	13a.	Explain different types of function arguments in Python with examples. (OR)
CO3	K4	13b.	What is recursion? Write a Python program to find the factorial of a number using recursion.
CO4	K4	14a.	Write short notes on list methods in Python with examples. (OR)
CO4	K4	14b.	Differentiate between lists and dictionaries with examples.
CO5	K5	15a.	Explain the process of opening and closing files in Python with syntax and example. (OR)
CO5	K5	15b.	Write a Python program to read the contents of a text file and count the number of words.

Course Outcome	Bloom's K-level	Q. No.	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	16a.	Explain the features of Python programming language. Discuss different types of literals, constants, variables, and identifiers with examples. (OR)
CO1	K3	16b.	What are Python arrays? Explain how to define and process arrays in Python with suitable examples.
CO2	K4	17a.	Explain selection or conditional branching statements in Python with suitable examples. (OR)
CO2	K4	17b.	Discuss iterative and jump statements in Python. Illustrate the use of for, while, break, continue, and pass statements with examples.
CO3	K4	18a.	Explain function definition, function call, and variable scope in Python. Describe different types of function arguments with examples. (OR)
CO3	K4	18b.	What are Python modules? Explain the use of the import statement, dir() function, and namespaces with examples
CO4	K5	19a.	Discuss creating, accessing, updating, and deleting elements in lists and tuples. Explain the differences between lists and tuples with examples. (OR)
CO4	K5	19b.	Explain how to create, access, update, and delete elements in a dictionary. Discuss commonly used dictionary methods with examples.
CO5	K5	20a.	Explain the process of reading and writing text files in Python using write(), writelines(), read(), and readlines() methods. (OR)
CO5	K5	20b.	Describe file handling operations such as opening, closing, renaming, and deleting files in Python. Illustrate with suitable examples.