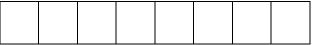# G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.
(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., ELECTRONICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART-III	ELECTIVE GENERIC-2	U23EL2A2	PYTHON PROGRAMMING

Date & Session: 14.11.2024 / 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.	Who developed Python Programming Language? a) Wick van Rossum b) Rasmus Lerdorf c) Guido van Rossum d) Niene Stom
CO1	K2	2.	Which of the following is the correct extension of the Python file? a) python b) pl c) py d) p
CO2	K1	3.	What does the print() function do in Python? a) Read input from the user b) Display output to the console c) Perform mathematical calculations d) Define a function
CO2	K2	4.	Is Python case sensitive when dealing with identifiers? a) yes b) no c) machine dependent d) interpreted
CO3	K1	5.	Which keyword is used to execute a block of code if the condition in the if statement is false? a) while b) elif c) else d) for
CO3	K2	6.	Name the loops that can be places inside other loops? a) Nested b) do-while loop c) Nested loop d) do-while loop
CO4	K1	7.	How do you import a module in Python? a) include module_name b) import module_name c) load module_name d) require module_name
CO4	K2	8.	Strings in python are _____, means that once a string is created, it cannot be modified. a) immutable b) mutable c) comparable d) sliced
CO5	K1	9.	How to open a file in append mode in python? a) open(file, "r") b) open(file, "w") c) open(file, "a") d) open(file, "x")
CO5	K2	10.	Which method is used to open a file in python? a) new() b) read() c) start() d) open()
Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer ALL Questions choosing either (a) or (b)
CO1	K3	11a.	Enumerate advantages and disadvantage of python. **(OR)**
CO1	K3	11b.	Write a simple python program to display "Hellow World".

CO2	K3	12a.	What are literals and constants in Python? Provide examples of each.
			(OR)
CO2	K3	12b.	Write short notes on the following with example: i) Variables ii) Keywords
CO3	K4	13a.	Compare Condition controlled loop with Counter controlled loop with example.
			(OR)
CO3	K4	13b.	Demonstrate the use of nested loops in Python with a practical example.
CO4	K4	14a.	Differentiate between Lists and Dictionary in python.
			(OR)
CO4	K4	14b.	Write a Python program to create a Tuple and display its elements.
CO5	K5	15a.	Explain the different types of files in python.
			(OR)
CO5	K5	15b.	Explain the working with pyplot methods.

Course Outcome	Bloom's K-level	Q. No.	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Explain the two types of working mode in python programming.
			(OR)
CO1	K3	16b.	Discuss the designing algorithms representation of algorithm using flowchart.
CO2	K4	17a.	Classify the different types of operators in Python with examples (arithmetic, logical, comparison, etc.).
			(OR)
CO2	K4	17b.	What are identifiers in Python? Explain the rules for defining identifiers in Python programming. Illustrate with examples.
CO3	K4	18a.	Analyze how conditional statements can be utilized to create decision-making structures in Python. Provide examples.
			(OR)
CO3	K4	18b.	Illustrate the syntax and functionality of the for loop with range() in Python with suitable example.
CO4	K5	19a.	Illustrate Python Built-in string functions with syntax and example.
			(OR)
CO4	K5	19b.	How tuples are created in Python explain different ways of accessing and creating them?
CO5	K5	20a.	List and evaluate different modes for opening a file in python with suitable example.
			(OR)
CO5	K5	20b.	Create line chart and bar chart using matplotlib library's pyplot.