Reg. No. | | | | | | | | |

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

UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.
(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., INFORMATION TECHNOLOGY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
VI	PART-III	CORE	U21IT611	PROGRAMMING WITH PYTHON

Date & Session: 29.04.2025/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.	Who developed the Python Programming Language? a) Dennis Ritchie b) Guido Van Rossum c) Stroustrup d) Ada Lovelace
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 will be the value of the following Python expression? 4 + 3 % 5. a) 7 b) 2 c) 4 d) 1

CO2	K2	4.	What will be the output of the following Python code?
			`i = 1`
			`while True:`
			`  if i%3 == 0:`
			`  break`
			`  print(i)`
			`  i + = 1`
			a) 1 b) 0 c) Error d) -1

CO3	K1	5.	Which of the following is not a core data type in Python programming? a) Tuples b) Lists c) Class d) Dictionary
CO3	K2	6.	What arithmetic operators cannot be used with strings in Python? a) * b) - c) + d) All of the above
CO4	K1	7.	What are the two main types of functions in Python? a) Build –in & User defined function b) Undefined and Defined Function c) Defined and control function d) Class and Build – in Function
CO4	K2	8.	Lambda is a statement. a) True b) False c) Either True or False d) None of the above
CO5	K1	9.	What is the output when we execute list("hello")? a) ['h', 'e', 'l', 'l', 'o'] b) ['hello'] c) ['llo'] d) ['olleh']
CO5	K2	10.	Which of the following is not a type of inheritance? a) Double-level b) Multi-level c) Single-level d) Multiple

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.	Write about Programming errors and its types. **(OR)**
CO1	K3	11b.	Explain how to create Python Source code and give an example program to find odd or even number.
CO2	K3	12a.	Discuss about Strings and Characters. **(OR)**
CO2	K3	12b.	Give a detailed notes on loop and its types.
CO3	K4	13a.	Elaborate Generating Random numbers. **(OR)**
CO3	K4	13b.	Write about Operator overloading and Special Methods.
CO4	K4	14a.	Describe in detail about functions. **(OR)**
CO4	K4	14b.	Differentiate Immutable and Mutable Objects.
CO5	K5	15a.	Show Passing List to functions and Returning a list from a function. **(OR)**
CO5	K5	15b.	Interpret object class, polymorphism and dynamic binding.

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 in detail about programming style, documentation and graphics programming in python. **(OR)**
CO1	K3	16b.	Discuss about i)Assignment Statements and Expressions. ii) Evaluating Expressions and Operator Precedence.
CO2	K4	17a.	Elaborate Formatting numbers and strings. **(OR)**
CO2	K4	17b.	Illustrate the Concepts of Sets and Tuples.
CO3	K4	18a.	Briefly explain the types of if Statements. **(OR)**
CO3	K4	18b.	Define the concepts of Strings in brief manner.
CO4	K5	19a.	Evaluate the concepts of the variables, Default Arguments and Returning values with program code as example. **(OR)**
CO4	K5	19b.	Critique the concepts of objects and encapsulation.
CO5	K5	20a.	Conclude the different types of lists with suitable example. **(OR)**
CO5	K5	20b.	Assess the concepts of files in detail.