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

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

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

PROGRAMME AND BRANCH: M.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART - III	CORE - 3	P23CS103	PYTHON PROGRAMMING

Date : 09.11.2024 / AN **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.	How do you create an empty list in Python? a) [] b) {} c) () d) <>
CO1	K2	2.	Which of the following operations is supported by sets in Python? a) Indexing b) Slicing c) Union d) Concatenation
CO2	K1	3.	In a for loop, which keyword is used to break out of the loop a) stop b) break c) exit d) continue
CO2	K2	4.	Which keyword is used to handle exceptions in Python? a) catch b) handle c) error d) except
CO3	K1	5.	_____ keyword is used to define a new class in Python. a) define b) class c) create d) type
CO3	K2	6.	Which special method is called to get the length of an object? a) __size__ b) __count__ c) __len__ d) __length__
CO4	K1	7.	How do you concatenate two strings in Python? a) string1.append(string2) b) string1.concat(string2) c) string1.merge(string2) d) string1 + string2
CO4	K2	8.	Which module in Python provides functions to handle binary data? a) binary b) io c) sys d) data
CO5	K1	9.	_____command is used to terminate a process in Unix/Linux. a) kill b) start c) end d) stop
CO5	K2	10.	Which protocol is commonly used for sending email over the internet? a) HTTP b) FTP c) SMTP d) IMAP

Course Outcome	Bloom's K-level	Q. No.	**SECTION – B (5 X 5 = 25 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K2	11a.	Explain the different numeric types in Python with examples. **(OR)**
CO1	K2	11b.	Write a simple example showing how to create and use a set in Python.
CO2	K2	12a.	Describe the features of using while loop in Python. **(OR)**
CO2	K2	12b.	Show how an if statement is used in Python with examples.
CO3	K3	13a.	Write the steps to create an object and a class in Python with a basic example. **(OR)**
CO3	K3	13b.	Discover in brief the benefits of using super() function.
CO4	K3	14a.	Examine the steps used in reading binary files with examples. **(OR)**
CO4	K3	14b.	Illustrate how text strings are used in Python with a simple example.
CO5	K4	15a.	Explain the features of handling files with examples. **(OR)**
CO5	K4	15b.	Illustrate in brief the steps used in handling directories in Python.

Course Outcome	Bloom's K-level	Q. No	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K4	16a.	Compare the operations that can be performed on tuples with examples. **(OR)**
CO1	K4	16b.	Analyze the purpose and use of different dictionary methods with examples.
CO2	K5	17a.	Explain the process of creating a function in Python including its basic syntax. **(OR)**
CO2	K5	17b.	Interpret the role of exception handling in Python and provide an example.
CO3	K5	18a.	Write the purpose of importing modules in Python. **(OR)**
CO3	K5	18b.	Explain single inheritance and multiple inheritance in Python.
CO4	K5	19a.	Describe the key characteristics of NoSQL databases. **(OR)**
CO4	K5	19b.	Determine how web services can be used for automation and provide a simple example.
CO5	K6	20a.	Write the features of the Publish-Subscribe model with examples. **(OR)**
CO5	K6	20b.	Discuss the basic principles of MapReduce implementation in Python.