



SRI KRISHNA INSTITUTE OF TECHNOLOGY

(Accredited by NAAC, Approved by A.I.C.T.E. New Delhi, Recognised by Govt. of Karnataka & Affiliated to V.T U., Belagavi)
#57, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bengaluru- 560090

Department of Electronics and Communication Engineering

Subject Name: Python Programming

Subject Code: 1BEC305

SEM : 3rd

Issue date : _____

Faculty : Shwetha R

Submission date: _____

Assignment-2 Questions

SL#	Question	CO	Level	Marks
	Section A - Short Answer Questions (2 Marks each)			
1	What is the difference between an absolute path and a relative path?	CO3	L2	2
2	What is the purpose of the os.path module?	CO3	L1	2
3	Differentiate between text files and binary files.	CO3	L2	2
4	What are the different modes used to open a file in Python?	CO3	L1	2
5	Differentiate between read(), readline(), and readlines().	CO3	L2	2
6	What is a programmer-defined type? Give an example.	CO4	L1	2
7	What is the difference between shallow copy and deep copy?	CO4	L2	2
8	What is a pure function? Give an example.	CO4	L1	2
9	What is the __init__ method used for?	CO4	L1	2
10	What is operator overloading? Give an example.	CO4	L1	2
11	What is polymorphism? Give an example in the context of OOP.	CO4	L1	2
12	What is HTTP? Explain its role in web communication.	CO5	L1	2
13	What is JSON? How is it different from XML?	CO5	L2	2
14	What is a primary key? What is a foreign key?	CO5	L1	2
15	What is a JOIN in SQL? Why is it used?	CO5	L1	2
16	What is the purpose of the create table SQL statement?	CO5	L1	2
	Section B - Long Answer / Descriptive Questions (10 Marks each)			
1	Explain the process of reading from and writing to files in Python with example programs.	CO3	L3	10
2	Explain the os.path module functions (join(), exists(), isfile(), isdir(), abspath()) with examples.	CO3	L2	10
3	Write a Python program to read a text file and count the number of words, lines, and characters in it.	CO3	L3	10
4	Explain the difference between copying a reference and copying an object (shallow vs deep copy) with a program.	CO4	L3	10



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5	Write a Python program to represent time using a Time class, and implement functions to add two time objects.	CO4	L3	10
6	Explain the __init__ method with an example program creating and initializing objects.	CO4	L2	10
7	Explain operator overloading in Python with an example program overloading the + operator for a class.	CO4	L3	10
8	Write a Python program demonstrating a complete class with __init__, __str__, and an overloaded operator (e.g., a Vector or Point class).	CO4	L3	10
9	Explain how to retrieve web pages using the urllib module, with an example program.	CO5	L2	10
10	Explain XML with an example document. How is XML parsed in Python?	CO5	L2	10
11	Explain JSON with an example, and compare it with XML.	CO5	L2	10
12	Explain database concepts: tables, rows, columns, and relationships.	CO5	L1	10
13	Explain basic SQL commands: CREATE, INSERT, SELECT, UPDATE, DELETE, with examples.	CO5	L2	10
14	Explain the JOIN operation in SQL with an example combining data from two related tables.	CO5	L2	10
15	Write a Python program to connect to a database and perform basic CRUD (Create, Read, Update, Delete) operations.	CO5	L3	10

Faculty Signature