

**COER UNIVERSITY**  
**END SEMESTER EXAMINATION, EVEN SEM 2022-23(BACK PAPER)**

**Total Marks : 100**  
**Semester : II**  
**Course Code : SOC 102**

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	Bl
(a)	Write a short note on History of Python.	CO 1	1
(b)	Differentiate between google colab and jupyter notebook.	CO 1	2
(c)	Explain the Strength and Weakness of Python Programming language.	CO 1	2
(d)	What do you mean by Python IDE? Explain different types of IDE available for programming.	CO 1	2
(e)	Compare between local and global variables with examples.	CO 1	2

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Discuss anonymous function. Write a program to create a function using lambda to add two numbers.	CO 2	2
(b)	Define Built-in functions. List any 5 Built-in functions with example.	CO 2	2
(c)	List different conditional statements in python with appropriate examples.	CO 2	1
(d)	Define the importance of lists in Python. Create a list with even number from 0 to 100 and display its elements.	CO 2	2
(e)	Explain Datatypes. Also illustrate the user define data types in Python with example.	CO 2	2

Q. No 3	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Explain Dictionaries with the help of example program.	CO 3	2
(b)	Write a program to print Fibonacci series in Python.	CO 3	2
(c)	How to add values to a python array? Show with an example.	CO 3	2
(d)	Illustrate the use of range() in python along with the help of an example.	CO 3	2
(e)	How to create and import a module in Python? Explain.	CO 3	5

Q. No 4	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Explain in brief GroupBy clause in python.	CO 4	2
(b)	Justify that NumPy arrays better than Python's lists? Explain	CO 4	2
(c)	Write a program to display the Fibonacci sequences up to nth term where n is provided by the user.	CO 4	2

Q. No	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Define pickling in Python. Explain serialization and deserialization of Python object.	CO 5	2
(b)	Write Python program to demonstrate the writing of data to a CSV file using Dict Writer class.	CO 5	5
(c)	How you can handle exceptions in python? Explain.	CO 5	2

**-End of Paper-**