

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

PYTHON FOR DATA SCIENCE

I Year II Sem 2023-24

QUESTION BANK

UNIT - I

Long Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	Illustrate the features of Python programming language.	7	2		
2	Explain the following operators in python with appropriate examples	7	5		
3	Write Selection or conditional branching statements with examples	7	3		
4	Explain the input and output functions in python with appropriate examples	7	4		

Short Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	Write a program using continue statement	3	2		
2	List out the internal data types of Python.	3	1		
3	Write a short note on type conversion	3	5		
4	Write looping statements with examples	3	3		

UNIT - II

Long Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	Write a program to find factorial of a number using recursion	7	2		
2	Illustrate the functions LAMBDA and recursive	7	1		
3	What are the two ways of importing a module in python? Which one is more beneficial?	7	2		
4	What are packages? Give an example of package creation in Python.	7	3		

Short Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	Define Module. How do you use them in your programs	3	1		
2	Write a short note on the return statement	3	1		
3	What is module and package in Python?	3	2		
4	How to make your own modules. Illustrate the steps in detail.	3	3		

UNIT - III**Long Answer Questions**

S.No	QUESTION	MARKS	BL	CO	PO
1	Explain about basic list operations	7	1		
2	What is tuple? Explain various tuple operations	7	2		
3	Give a comparison between lists, tuples, dictionaries and sets.	7	5		
4	Explain about methods in Lists of Python with appropriate examples.	7	2		

Short Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	Briefly explain how to Create and Assign Lists	3	2		
2	Define a Set. Illustrate Set Type Built-inMethods with suitable examples	3	2		
3	Explain set operations	3	5		
4	Illustrate adding and modifying items in dictionaries	3	2		

UNIT - IV**Long Answer Questions**

S.No	QUESTION	MARKS	BL	CO	PO
1	Explain how to implement inheritance in Python.	7	2		
2	Explain about Different types of exceptions in python	7	3		

3	Define Inheritance. Explain each category of inheritance with an example program.	7	4		
4	What is exceptional handling in Python? Explain in detail with an example program.	7	4		

Short Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	What is error and exception in Python?	3	2		
2	Write python script to explain the concept of try-except statement	3	3		
3	Explain types of errors in python with examples	3	2		
4	Define classes and objects with syntax.	3	2		

UNIT - V

Long Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	What is a Univariate plot? Explain the Python histogram plotting?	7	2		
2	Explain about Pandas data frame	7	3		
3	What is Matplotlib Plotting in Python? Give a brief explanation.	7	2		
4	What is a histogram used for in univariate analysis?	7	4		

Short Answer Questions

S.No	QUESTION	MARKS	BL	CO	PO
1	Briefly explain about creating your own data series	3	2		
2	How to make changes to series and data frames	3	1		
3	What are the objects in pandas?	3	2		
4	How to get Series values in pandas?	3	2		