K25FY2427 C

Reg No:....

Name :.....

Second Semester FYUGP Computer Science Examination APRIL 2025 (2024 Admission onwards) KU2DSCCSC112 (BASICS OF DATA ANALYTICS) (DATE OF EXAM: 2-5-2025)

Time	e: 90 min Maximum Marks :	50
P	art A (Answer any 6 questions. Each carries 2 marks)	
1.	What are the types of data analytics?	2
2.	What is the purpose of comments in Python?	2
3.	Write a line of code that takes user input in Python.	2
4.	What is the difference between a list and a tuple in Python?	2
5.	How do you import a specific function (e.g., $sqrt$) from the math module in Pyth	on? 2
6.	What is the purpose of using the import keyword in Python?	2
7.	How do you iterate over all the rows of a two-dimensional array in NumPy?	2
8.	What is the use of title() function?	2
	Part B (Answer any 4 questions. Each carries 6 marks)	
9.	Discuss the various career opportunities in data analytics and the skills required for each role.	red 6
10.	Write a Python program that takes input from the user, processes it, and t outputs a result.	nen 6
11.	Explain pop(), get(), and update() with example code.	6
12.	Explain statistics module in python.	6
13.	How does the linspace() function differ from arange()? Explain with an exam	ple. 6
14.	Explain the use of xlabel() and ylabel(), and how to add a title to a plot.	6
	Part C (Answer any 1 question(s). Each carries 14 marks)	
15. •	 (a) Write a program to create the following plots for x=[1,2,3,4] and y=[10,20,1] a. Bar chart b. Scatterplot c. Histogram 	5,25] 7
	(b) Explain the use of xlabel(), ylabel(), title(), and text() functions for add labels and annotations to a plot. Give an example.	ing 7
16.	(a) How does the numpy.zeros() function differ from numpy.empty() when a ting arrays.	ere- 7
	(b) Explain the different methods to create arrays in NumPy.	7