

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2024
(Second Semester)
Branch – **COMPUTER SCIENCE**
COMPUTING USING PYTHON

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	What will be the output of str[0:4] if str="Hello"? a. 'Hello' b. 'H' c. 'Hel' d. 'Hell'	K1	CO1
	2	Show the keyword that is used to define the block of statement in the function? a. Function b. def c. func d. pi	K2	CO1
2	3	What is the repetition operator in lists? a. * b. , c. ; d. &	K1	CO1
	4	Interpret the output of the following code? >>>tuple = ('john', 100, 345, 1.67, 'book') >>>print(tuple[2:4]) a. (345, 1.67, 'book') b. (100, 345, 1.67) b. c. (345, 1.67) d. (100, 345)	K2	CO1
3	5	Which of the following functions is used to open a file in Python? a. open{} b. open() c. open[] d. Open()	K1	CO1
	6	Show the method used to display the current working directory a. mkcwd() b. getcwd() c. chcwd() d. setcwd()	K2	CO1
4	7	Which widget is used to get the data from the user ? a)Entry b)Label c)Button d) None of the above	K1	CO1
	8	Outline the need of Config() in Python Tkinter a)place the widget b)destroy the widget c)configure the widget d)change property of the widget	K2	CO1
5	9	What will be the output of following code? import pandas as pnd pnd.Series([1,2], index= ['a','b','c']) a.Syntax Error b .Index Error c. Value Error d.None of the above mentioned	K1	CO1
	10	Show the library used for analyzing data. a. Math b. Random c. Panda d. None of the above	K2	CO1

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Analyze different types of operators in Python.	K4	CO1
	(OR)			
	11.b.	Test for whether a string is a palindrome or not using python program.		
2	12.a.	Examine the way of Creating and updating Tuple.	K4	CO2
	(OR)			
	12.b.	Inspect List functions using Python Program.		
3	13.a.	Assess the way of Handling Exceptions.	K5	CO3
	(OR)			
	13.b.	Explain the important terms in OOP.		
4	14.a.	Create three tkinter Radiobutton widgets. Write code that changes the color of the main form depending upon which Radiobutton is selected.	K6	CO4
	(OR)			
	14.b.	Elaborate on adding a ListBox to the GUI form.		
5	15.a.	Explain about Sorting and ranking in Dataframe data structure.	K5	CO5
	(OR)			
	15.b.	Explain the steps of creating Line Plots using Panda and create using code.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Evaluate about control Statements in python.	K5	CO1
2	17	Explain the Built-In Dictionary Methods.	K5	CO2
3	18	Analyze the concept of Inheritance and its types.	K4	CO3
4	19	Create basic forms using Tkinter.	K6	CO4
5	20	Examine about creating Histograms and scatter Plots using panda.	K4	CO5