

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023  
(Second Semester)

Branch – COMPUTER SCIENCE

COMPUTING USING PYTHON

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 Which character is used in Python to make a single line comment?  
(i) / (ii) //  
(iii) # (iv) !
- 2 What is the output when we execute list("hello")?  
(i) ['h', 'e', 'l', 'l', 'o'] (ii) ['hello']  
(iii) ['llo'] (iv) ['olleh']
- 3 How many classes can be defined in a single program?  
(i) Only 1 (ii) Only 100  
(iii) Only 999 (iv) As many as you want
- 4 Config() in Python Tkinter are used for \_\_\_\_\_  
(i) place the widget (ii) destroy the widget  
(iii) configure the widget (iv) change property of the widget
- 5 What will be the minimum number of arguments require to pass in pandas series?  
(i) 2 (ii) 3  
(iii) 4 (iv) None of the above mentioned

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a. Write short notes on python identifiers.  
OR  
b. Write a python program to implement recursive function.
- 7 a. How do you create tuples? Give an example  
OR  
b. Give the steps to remove items in dictionary with an example.
- 8 a. Comment data hiding. Give an example.  
OR  
b. How do you create an objects? Give an example.
- 9 a. Differentiate label and textbox.  
OR  
b. Outline the properties of button control.

Cont...

- 10 a. Bring out the features of Matplotlib.  
OR  
b. Write note on dataframes with an example.

**SECTION -C (30 Marks)**

Answer ALL questions  
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a. Determine if else statements with example.  
OR  
b. Describe python strings and its functions.
- 12 a. Demonstrate the procedure to add and remove items in list.  
OR  
b. Examine any 3 methods of tuple with an example.
- 13 a. Illustrate the methods of handling multiple exceptions.  
OR  
b. Explain various types of inheritance.
- 14 a. Develop a numeric calculator program by using python GUI.  
OR  
b. Demonstrate the working principles of radio button and checkbox.
- 15 a. Enumerate isnull() and notnull() in pandas with an example.  
OR  
b. Analyse line plot and bar plot with suitable example.

Z-Z-Z

END