PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - ELECTRONICS

PYTHON PROGRAMMING & APPLICATIONS

	T	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 for commenting in Python? (i) # (ii) ! (iii) @	(iv) *	
2		What are the advantages of using functions? (i) Reduce duplication of code (ii) Clarity of code (iii) Reuse code (iv) All of the above		
3		Which type of operator will we use to access a part of (i) { } (ii) [] (iii) < >	the string? (iv) ()	
4		Which of the following sequence data type is similar to (i) Dictionaries (ii) List (iii) String	o the tuple? (iv) Function	
5		Which of the following is the default mode while oper (i) Binary (ii)Number (iii) Text	ning a file? (iv) Image	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6	a	OR		
	b	How will you convert a string to an integer in Python?		
7	a	Explain about built-in function in Python. OR		
	b	Explain Anonymous function in Python.		
8	a	a Explain the 'slice' operator in python with an example. OR		
	b	State the work of 'len' function used in string?		
9	a	How to create a tuple in Python? OR		
	b	Explain different methods used in deleting element	s from dictionary.	
10	a	Explain the modes for opening a file. OR		
	b	How will you delete and rename a file in Python?		

Cont...

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SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Analyze different types of control statements with an example.

OR

- b Write a Python program to display the Fibonacci sequence for 'n' terms.
- 12 a Discuss the following: i. The return statement ii. Parameters and Arguments OR
 - b Write a Python program to implement recursion for factorial of a given number.
- 13 a Discuss about string formatting functions in Python with an example.

OR

- b What is a list? Explain with an example.
- 14 a Identify various basic tuples operations and built-in tuple functions in Python with an example.

OR

- b Write a function called 'circleinfo' which takes the radius of circle as argument and returns the area circumference of the circle?
- 15 a Elucidate the concept of Exception handling with an example.

OR

b Write a Python program to demonstrate the file I/O operations.

Z-Z-Z

END