PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BBA DEGREE EXAMINATION MAY 2025

(Fifth Semester)

Branch- BUSINESS ADMINISTRATION (INFORMATION SYSTEM)

PYTHON PROGRAMMING	
Time:	Three Hours Maximum: 50 Marks
	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks $(5 \times 1 = 5)$
1	Which method is used to find the number of occurrences of a substring in a string? (i) center() (ii) count() (iii) endswith() (iv) index()
2	Identify the correct method used to remove all items from a Python list. (i) clear() (ii) delete() (iii) remove() (iv) pop()
3	When would you use a while loop instead of a for loop? (i) When you know the number of iterations (ii) When iterating over a list (iii) When iterating over a string (iv) When you need to iterate based on a condition
4 5	What is the purpose of the try and except blocks in Python? (i) To define a function (ii) To handle exceptions (iii) To write comments (iv) To declare variables Which function is used to read the contents of an entire text file in Python? (i) readline() (ii) readlines() (iii) read() (iv) readfile()
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)	
6 a	Describe the purpose of the format() method when concatenating strings. OR
b	Summarise how Python handles mixed-mode arithmetic expressions and type conversion.
7 a	Explain how to unpack tuples and the use cases of tuple unpacking. OR
b	Describe how the union() method works for sets in Python.
3 a	Explain the function of the get() method when retrieving dictionary values. OR

State the significance of the if-else control structure in decision-making

b

processes.

Cont...

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9 a Summarise the role of constructors in class instantiation.

OR

- b State the purpose of the try-except block in handling exceptions.
- 10 a Describe the process of opening, reading, and closing a text file in Python.

b Show how to use Python to list all files in a directory.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Discuss how Python's character set and escape characters enable flexibility in handling text data.

OR

- b Examine the process of variable assignment in Python and its impact on program behavior.
- 12 a Differentiate between mutable and immutable data types using lists and tuples as examples.

OR

- b Elucidate the various list methods such as append(), insert(), and pop(), and their effects on list manipulation.
- 13 a Analyze how nested dictionaries work and how to access data from them.

OR

- b Discuss the importance of control structures like loops and conditional statements in program flow.
- 14 a Justify the use of exception handling in Python programs with a focus on error management and robustness.

OR

- b Compare traditional procedural programming and Object-Oriented Programming, highlighting their key differences.
- 15 a Differentiate between reading text and reading numbers from files, emphasizing how Python treats data types during file I/O.

OR

b Examine how Python's built-in functions like open(), read(), and write() are used to manage file access and content.

Z-Z-Z

END