TOTAL PAGES : 2

23ISU524N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BBA DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – **BUSINESS ADMINISTRATION (INFORMATION SYSTEMS)**

PYTHON PROGRAMMING

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 symbol is used for single-line comments in Python? a) // b) # c) /* d) --	K1	CO1
	2	Which method returns the position of the first occurrence of a substring? a) find() b) index() c) search() d) locate()	K2	CO1
2	3	What is the correct way to declare a list in Python? a) list{} b) list[] c) [1,2,3] d) (1,2,3)	K1	CO2
	4	Compare append() and extend() methods in Python Lists. Which method adds multiple elements? a) append() b) extend() c) insert() d) copy()	K2	CO2
3	5	What data type does a Python dictionary key belong to? a) Mutable b) Immutable c) List d) Float	K1	CO3
	6	Illustrate which control structure repeats execution until a condition becomes false. a) if b) for c) while d) switch	K2	CO3
4	7	What keyword is used to create an object in Python? a) new b) create c) class d) No keyword	K1	CO4
	8	Classify which special function returns a string representation of an object. a) init() b) str() c) del() d) name()	K2	CO4
5	9	What is the default mode when opening a file with open()? a) r b) w c) a d) r+	K1	CO5
	10	Compare r and r+ file modes. Which allows both reading and writing? a) r b) r+ c) w d) a	K2	CO5

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.	Explain the string methods such as capitalize(), count() and format() with suitable examples.	K2	CO1
		(OR)		
	11.b.	Demonstrate the use of escape sequences in Python strings with example.		
2	12.a.	Develop code to explain list comprehensions with examples showing filtering and transformation.	K3	CO2
		(OR)		
	12.b.	Identify the situations where tuples are preferred over lists and support with examples.		
3	13.a.	Build code to illustrate the use of For loop with example.	K3	CO3
		(OR)		
	13.b.	Build code to illustrate the use of functions in Python to implement repetitive tasks effectively.		
4	14.a.	Distinguish between single inheritance and multiple inheritance in Python with examples.	K4	CO4
		(OR)		
	14.b.	Analyze the use of the raise keyword in exception handling.		
5	15.a.	Examine the steps involved in reading numbers from a file and processing them with examples.	K4	CO5
		(OR)		
	15.b.	Analyze the use of text files for storing program data compared to in-memory structures.		

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	Examine the arithmetic expressions in Python. Distinguish between integer division and floating-point division with examples.	K4	CO1
2	17	Analyze the role of set methods like add(), clear(), copy(), and union(). Provide illustrations.	K4	CO2
3	18	Examine how Python dictionaries handle key-value pairs. Analyze the effect of updating values for existing keys.	K4	CO3
4	19	Inspect how operator overloading enhances code reusability. Justify with an example using the + operator.	K4	CO4
5	20	Distinguish the differences between writing text data and binary data to files in Python.	K4	CO5

Z-Z-Z END