PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2025
(Third_Semester)

Branch - APPLIED ELECTRONICS
ADVANCED PROGRAMMING LANGUAGES

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	Which of the following element is responsible for making the text bold in HTML? a)\<pre> b)\<a> c)\<b> d)\ 	K1	CO1
	2	_____ is used to find and fix bugs in the Java programs. a)JVM b)JRE c)JDK d)JDB	K2	CO1
2	3	In Operating Systems, which of the following is/are CPU scheduling algorithms? a) Priority b) Round Robin c) Shortest Job First d) All of the mentioned	K1	CO2
	4	In C, what are the basic loops required to perform an insertion sort? a) do- while b) if else c) for and while d) for and if	K2	CO2
3	5	What do we use to define a block of code in Python language? a) Key b)Brackets c)Indentation d)None of these	K1	CO3
	6	Which of the following statements is correct for variable names in Python language? a) All variable names must begin with an underscore b) Unlimited length c) The variable name length is a maximum of 2 d) All of the above	K2	CO3
4	7	For user Entry data, which widget we use in tkinter? a) Entry b) Text c) Both of the above d) None of the above	K1	CO4
	8	Which version of Python removed the print statement? a) Python 1.x b) python 2x c) python 3x d) python 4 x	K2	CO4
5	9	Data Analysis is a process of, a) Inspecting data b) Data Cleaning c)Transforming of data d) All of the mentioned above	K1	CO5
	10	A good data analytics solution includes a viable self-service ___. a)Data mining b)Data wrangling c)Data warehouse d)None of the mentioned above	CO1	CO5

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 basics of web programming and HTML.	K3	CO4
		(OR)		
	11.b.	Describe the control statement and Arrays.		
2	12.a.	Write a short note on Database and RDBMS.	K3	CO3
		(OR)		
	12.b.	Explain the Procedure Rename a column, Drop a column and truncate a Table.		
3	13.a.	Discusses about the Python features and its applications.	K2	CO1
		(OR)		
	13.b.	Illustrate the control flow and Loops.		
4	14.a.	Explain the concept of Packages and Strings.	K2	CO1
		(OR)		
	14.b.	Explain the Polymorphism with application.		
5	15.a.	Write note on Data Cleaning and Preprocessing Techniques.	K4	CO5
		(OR)		
	15.b.	Explain the Data visualization with Matplotlib.		

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	Explain Types of Variables and Operators with example.	K2	CO1
2	17	Discuss about the Data Manipulation Language Commands and operations with Types.	K3	CO2
3	18	Analyze the Writing simple programs in Python with Boolean or Numeric types.	K4	CO5
4	19	Explain the Excel and SQL database.	K3	CO3
5	20	Explain the applications of Machine Learning with Scikit Learn.	K3	CO4

Z-Z-Z   END