PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – **ELECTRONICS**

COMPUTER PROGRAMMING IN "C" LANGUAGE

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1   Step by step instructions written to solve any problem is called ___
    (i)   Pseducode   (ii) Algorithm
    (iii) Assembler   (iv) Class

2   How many bytes does "int D=" use?
    (i) 1   (ii) 0
    (iii) 10   (iv) 2 or 4

3   How is the 3rd element in an array accessed based on pointer notation?
    (i)   *a+3   (ii) *(*a+3)
    (iii) *(a+3)   (iv) &(a+3)

4   The default parameter passing mechanism is _____.
    (i)   call by value   (ii) call by reference
    (iii) call by result   (iv) call by error

5   In which of the following modes, the user can read and write the file?
    (i)   r   (ii) w
    (iii) r+   (iv) b+

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6   a   Describe how to represent a Variable.
                        OR
    b   Explain about keywords.

7   a   Explain switch statement with example.
                        OR
    b   Explain about expression in C with example.

8   a   How to accessing the value from array?
                        OR
    b   Explain for loop with example.

9 a   Explain bout function with variables.

OR

   b   Outline the advantages of Pointers.

10 a   Organize an array with structure.

OR

   b   Illustrate structure with example.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11 a   Discuss the various data types in C.

OR

   b   Elucidate the structure of C program.

12 a   Discuss the various types of operators in C with example.

OR

   b   Elucidate the various decision Making Statements in C.

13 a   Discuss about an array.

OR

   b   Write a Fibonacci series program using for loop.

14 a   Elucidate about functions with return values.

OR

   b   Discuss how to declare a pointer variable with example.

15 a   Develop a C program using structures to store the personal details of a person such as name, address & contact no.

OR

   b   Develop a C program to read name and marks of n number of students and store them in a file.

Z-Z-Z   END