PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019
(Fourth Semester)

Branch - **MATHEMATICS WITH COMPUTER APPLICATIONS**

C PROGRAMMING

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (1 0 x 2 = 20)

1   What is a volatile keyword mean?
2   What is mean by Enumerated data type?
3   What does a control string contain?
4   Give the significance of size of operator.
5   Write the syntax for simple if statement.
6   State the use of while statement.
7   How to declare array in C?
8   List out the uses of C functions.
9   Define Pointer.
10   How to open a file in C?

SECTION - B (25 Marks!
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Write short notes on escape sequences in C.
                            OR
    b Write a C program to illustrate static variable.

12 a Write a C program using pre increment operator and give its output.
                            OR
    b   Give a short note on character test functions in C.

13 a   Illustrate if.. .else statement with a C program.
                            OR
    b Give necessary with example for the do.. .while loop in C.

14 a Demonstrate call by reference using a C program.

    b How will you access an array element? Explain with example.

15 a Demonstrate the write operation in a file.
                            OR
    b Differentiate structure and union.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Cany **EQU AL** Marks (3 x 10 = 30)

16   Explain the various data types in c.

17   Write in detail about arithmetic operators in C with an illustration program.

18   Discuss about looping control statements in C programming.

19   Write a C program to multiply two matrices.

20   Write a C program to add two distances entered by user. Measurement of distance should be in inch and feet. (Note: 12 inches = 1 fnntt