PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – MATHEMATICS WITH COMPUTER APPLICATIONS

PROGRAMMING IN C

Time: Three Hours   Maximum: 50 Marks

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

1   C language is introduced in the year _____
    (i) 1960   (ii) 1972   (iii) 1982   (iv) 1977

2   _____ is a two way decision statement
    (i) for   (ii) if   (iii) switch   (iv) while

3   The _____ function returns the length of string
    (i) Sprintf   (ii) Sizeof( ) (iii) Strlen   (iv) Strcmp

4   A structur is a collection of _____ variables
    (i) Same datatype   (ii) Different datatype
    (iii) Arrays   (iv) Integer

5   The computer memory is a sequential collection of _____
    (i) Storage cell   (ii) buffer cell
    (iii) garbage cell   (iv) Register Cell

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

6   a   Write short notes on the history of the C Language.
                        OR
    b   What are the relational operators? Explain it with example?

7   a   Write short notes on exit controlled loops.
                        OR
    b   Explain the GOTO statement with example.

8   a   Describe the concept of array and its types.
                        OR
    b   Discuss about Recursion.

9   a   Explain the array of pointers with example.
                        OR
    b   Write a C program to perform the addition using pointers.

10 a Discuss about the Unformatted Data File in C.

OR

b What is register variables in C with example?

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

11 a Discuss the various operators in C.

OR

b Write about constants, variable and keywords in C language.

12 a Explain the formatted console I/O function with example.

OR

b Explain the Switch statement with example.

13 a Discuss about one-dimensional array with example.

OR

b Elaborate about the Character Array with example.

14 a Explain the Reading and Writing a String with example.

OR

b Briefly explain the concept of pointers in C with example.

15 a Write about the Reading and Writing a Data File in C.

OR

b Explain the concept of Bitwise Operator.

Z-Z-Z   END