PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch -SOFTWARE SYSTEMS
(Five year integrated)

PROGRAMMING IN C

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (10 x 1 = 10)

1   Choose the conditional operator.
    (i) &&   (ii) II
    (iii) = =   (iv) ?:

2   Which is not a keyword?
    (i) void   (ii) case
    (iii) main   (iv) break

3   Which is not a jump statement?
    (i) goto   (ii) brake
    (iii) continue   (iv) default

4   The keyword 'label' is available for_____ statement.
    (i) goto   (ii) brake
    (iii) continue   (iv) default

5   Name the function used to find the string length.
    (i) strcpy()   (ii) strlen()
    (iii) strcmpO   (iv) strcon()

6   Name the function is sued to compare two strings.
    (i)   strcpy()   (ii) strlen()
    (iii) strcmp()   (iv) strcon()

7   Function does not return any value for__ data type.
    (i)   void   (ii) int
    (iii)   float   (iv) char

8   Which operator is used to access structure members?
    (i)   *   (ii) .
    (iii)   ->   (iv) ? :

9   What mode of the file is used to open for write the content with existing data?
    (i)   r   (ii) w
    (iii)   a   (iv) e

10 What mode of the file is used to open the file for reading the data?
    (i)   r   (ii) w
    (iii)   a   (iv) e

SECTION - B (25 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 5 = 25)

11 Cxnlom   r>f varinWp Herlnratinn anrl rules with examnles.

12 a Classify jump statements with examples.

OR

    b Prepare a C program to find the factorial using recursive functions.

13 a Discuss about multidimensional array with examples.

OR

    b Explain about functions with examples.

14 a Prepare a program to swap two numbers using call by reference.

OR

    b State the string functions with examples.

15 a Prepare a program to copy the content of one file into another.

OR

    b Explain the different types of file operations with examples.

SECTION -C (40 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks ($5 \times 8 = 40$)
Question no. 16 is compulsory

16   What is the need of Structure? Does structure bring additional overhead to program? Justify for the following scenario :

        Define a structure called, student that contains name, regno and 5 subject marks and write a program to find the total and average marks of a student.

$(1 + 3 + 4)$

17 a Explain the types of if… else statements with examples.

OR

    b Construct a C program to find the biggest number among the given three numbers.

18 a   Construct a C program for matrix addition, subtraction and multiplication.

OR

    b   Explain the various types of functions with examples.

19 a   Construct a C program to prepare the pay bill of an employee using Structure.

OR

    b   Explain in detail about dynamic memory allocation with examples.

20 a   Explain the types of input / output file operations with examples.

OR

    b   Construct a C program to count the number of wards given as a input in the command line arguments.

z-z-z   END