PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Fifth Semester)

Branch- MATHEMATICS

ELECTIVE -1: PROGRAMMING IN C

Time: Three Hours

Maximum: 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks $(10 \times 2 = 20)$

- 1 What is a floating point constants?
- Write the syntax for declaring a variable.
- Write any two rules for increment and decrement operators.
- 4 Define implicit type conversion.
- 5 What is the format of printing a single character?
- Write the general form of the switch statement.
- 7 Define sentinel variable.
- 8 Write the general form of a multi-dimensional array.
- 9 Define modules. .
- 10 How to declare a pointer variable?

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry EQUAL Marks $(5 \times 5 = 25)$

11 a What are the rules applied to a #define statement?

OR

- b Write a program to calculate the average of set of N numbers.
- 12 a Explain conditional operator.

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- b List out the mathematical functions with examples.
- 13 a Write a short note for a reading character.

OR

- b Write the rules of switch statement.
- 14 a Explain the DO statement with example.

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- b Write a sort note on One-dimensional array.
- 15 a Discuss about a definition of functions.

OR

b Write a program to read data from the Keyboard, write it to a file called input, again read the same data from the input file, and display it on the screen.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- -Explain the various types of constants in C with an example,
- Discuss the different types of operators available in C.
- Explain the syntax and purpose of decision making statements in c.
- Explain the three constructors for performing loop operations.