

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(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 x 2 = 20)

- 1 What is meant by global variables?
- 2 Define void data type.
- 3 What is the use of bit wise operators?
- 4 Write a note on mixed - mode arithmetic.
- 5 Define formatted input with example.
- 6 How to print a single character?
- 7 Write about conditional operator.
- 8 What is entry - controlled loops?
- 9 Mention two classification of C functions.
- 10 Describe the parts of function declaration.

SECTION - B (25 Marks!)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Explain basic structure of C program.
OR
b How to read a data from keyboard? Give example.
- 12 a Discuss about 2 special operators with example.
OR
b Describe implicit type conversion.
- 13 a Discuss about reading and writing a character in C.
OR
b Write a C program to find average cost and range of values in a digital shop.
- 14 a Explain Do... while loop with example.
OR
b Write a program to compute sum of the squares of 20 data using one dimensional array.
- 15 a Explain the elements of function definition.
OR
b Explain recursion in C program with simple example.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain data types in C language.
- 17 Write note on arithmetic, relational and logical operators with simple example.
- 18 Explain switch statement with example for finding (or) grading students marks from distinction to failures.
- 19 Describe two dimensional arrays with example for multiplying two matrices of order 5.