

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Third Semester)

Branch – ELECTRONICS

C PROGRAMMING/ COMPUTER PROGRAMMING IN 'C' LANGUAGE

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 Which of the following is considered as keyword in the C programming language
(i) Variable (ii) int
(iii) constant (iv) identifier
- 2 Identify control structure that is used to execute a block of code only if a condition is true?
(i) If (ii) Else
(iii) Switch (iv) Continue
- 3 Select the operator used to increment a variable by 1
(i) -- (ii) ++
(iii) *= (iv) -=
- 4 Which operator is used to access the value pointed to by a pointer in C programming?
(i) * (ii) &
(iii) -> (iv) %
- 5 What is the purpose of the "struct" keyword?
(i) To declare a structure type (ii) To define a function
(iii) To allocate memory (iv) To perform mathematical Calculations

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Summarize the advantages of C.
OR
b Compare variables and constants in C programming.
- 7 a Explain the usage of the "if...else" construct.
OR
b Examine goto statement.
- 8 a Explain about two dimensional array.
OR
b Distinguish between incremental and decremental operators.
- 9 a Explain recursive function with example.
OR
b Show the advantages of using Pointers.
- 10 a How to know current file pointer position?
OR
b Interpret the need of structure in C.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Explain the structure of a C program, highlighting its main components.
OR
b Discuss about I/O statements with example.
- 12 a Classify the Operators in C with example.
OR
b Categorize the priority of operators.
- 13 a Analyze the way of initializing and accessing elements of one dimensional array.
OR
b Categorize the loops in C.
- 14 a Compare functions with and without variable.
OR
b Examine pointers and its Declaration.
- 15 a Explain about structure with structure.
OR
b Discuss about R/W files.

Z-Z-Z

END