

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2022
(First Semester)

Branch – NETWORKING AND MOBILE APPLICATIONS

PROBLEM SOLVING TECHNIQUES USING C

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

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

- 1 The _____ provides pictorial representation of given problem.
(i) Algorithm (ii) Flowchart
(iii) Pseudocode (iv) Keywords
- 2 Which of the following cannot be a variable name in C?
(i) volatile (ii) true
(iii) friend (iv) export
- 3 Elements in an array are accessed _____.
(i) randomly (ii) sequentially
(iii) exponentially (iv) logarithmically
- 4 The keyword used to transfer control from a function back to the calling function is
(i) go to (ii) go back
(iii) return (iv) switch
- 5 What is the return type of open() method?
(i) int (ii) char
(iii) bool (iv) float

SECTION - B (15 Marks)

Answer ALL Questions

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

- 6 a Define Algorithm. What are the characteristics of Algorithms?
OR
b Discuss in detail about Machine level languages.
- 7 a Discuss about Compiler vs. Interpreter.
OR
b Compare local variable and global variable in C language.
- 8 a Describe about Expression statement in C language.
OR
b Describe multidimensional array with an suitable example.

Cont...

- 9 a Discuss in detail about pointer variables.
OR
b Explain recursion with a suitable example.
- 10 a Explain union with an suitable example.
OR
b Explain streams and files.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Elaborate steps involved in problem solving using computers.
OR
b Explain in detail about Flow charts and Pseudocode with neat diagram.
- 12 a Discuss about Operators and its types with suitable example.
OR
b Elaborate on data types in C and its types.
- 13 a Elaborate Iteration statement in C language.
OR
b Summarize Jump statement in C language with suitable example.
- 14 a Explain pointer Expressions with an example.
OR
b Elaborate function and function arguments.
- 15 a Elaborate structures in C.
OR
b Explain in detail about file system basics.

Z-Z-Z

END