

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2023  
(First Semester)

Branch – NETWORKING AND MOBILE APPLICATIONS

**C PROGRAMMING**

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer ALL questions

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

- 1 C is \_\_\_\_\_ type of programming language.  
(i) Object Oriented (ii) Procedural  
(iii) Bit level language (iv) Functional
- 2 Which one of the following is a loop construct that will always executed at least once?  
(i) for (ii) while  
(iii) switch (iv) do while
- 3 A function which calls itself is called a \_\_\_\_\_ function.  
(i) Self Function (ii) Auto Function  
(iii) Recursive Function (iv) Static Function
- 4 How do you declare an integer pointer?  
(i) int p\*; (ii) int \*p;  
(iii) int +p; (iv) int \$p;
- 5 Select a function which is used to write a string to a file?  
(i) puts() (ii) putc()  
(iii) fputs() (iv) fgets()

**SECTION - B (15 Marks)**

Answer ALL Questions

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

- 6 a Define keyword. List the rules for naming a variable in C.  
OR  
b Explain the relational and logical operators used in C language.
- 7 a Explain formatted console I/O function and the format specifiers used with these function.  
OR  
b Explain If statement with syntax and suitable example.
- 8 a Explain recursion with an example.  
OR  
b Explain different storage classes in C.
- 9 a Define string. How a string is declared and initialized?  
OR  
b Explain the array of pointers with example.
- 10 a Define file. Explain the file open and file close functions  
OR  
b Explain command line parameters with example.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Describe data types in C with suitable examples.  
OR  
b Explain basic structure of a C program with an example.
- 12 a Discuss in brief about putchar and puts functions.  
OR  
b Differentiate between While and Do-while statement with suitable example.
- 13 a Define function. Explain the following:  
i) Function Prototype  
ii) Passing Arguments to a Function  
OR  
b Illustrate with an example how to declare & initialize Multidimensional arrays.
- 14 a Discuss in detail about pointer with a suitable example.  
OR  
b Differentiate between structure and union with suitable example.
- 15 a Write a C program to read and display text from a file.  
OR  
b Explain in detail about Enumeration with an example.

Z-Z-Z

END