PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BVoc DEGREE EXAMINATION MAY 2022
(First Semester)

Branch – NETWORKING AND MOBILE APPLICATION

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. Which of the following is **NOT** a valid C variable name?
(i)   int number;   (ii) float rate;
(iii) int variable_count;   (iv) int $main;

2. Comment on the given statement:
      scanf("%d", i);
(i) Will execute without any error   (ii) Will give Segmentation fault
(iii) Will give Compilation Error   (iv) Will give runtime Error

3. An array Index starts with?
(i)-1   (ii)0   (iii). 1   (iv) 2

4. What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    int i = 10;
    void *p = &i;
    printf("%f\n", *(float*)p);
    return 0;
}
```
(i) Compile time error   (ii) Undefined behaviour
(iii) 10   (iv) 0.000000

5. For binary files, a _____ must be appended to the mode string.
(i) Nothing   (ii) "b"
(iii) "binary"   (iv) "01"

SECTION - B (15 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 3 = 15)

6 a. Analyze C Character set.
                              OR
   b. Explain relational operators with example.

7 a. Describe the gets and puts function with example.
                              OR
   b. Explain if – else statement with example.

8 a. Explain recursion with example.
                              OR
   b. Summarize different storage classes in C.

9 a. Narrate how to read and write string in C.

OR

   b. Outline the Pointers concept.

10 a. Explain how to open and close a file in C.

OR

   b. Develop a C program to find the sum of given numbers using Command line parameters.

SECTION -C (30 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks   (5 x 6 = 30)

11 a. Discuss in detail C data types.

OR

   b. Enumerate the structure of C program with example.

12 a. Explain for statement with example.

OR

   b. Examine do – while statement with example.

13 a. Elucidate different categories of function with an example.

OR

   b. Explain array with an example.

14 a. Explain in detail structure with example.

OR

   b. Summarize string functions with examples.

15 a. Trace a C program that implement files concept

OR

   b. Categorize file operations.

Z-Z-Z   END