



Progressive Education Society's  
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16  
End Semester Examination: Jan.2023  
Faculty: Science and Technology

Semester: I

**Program:**B.Sc.Computer Science Code(BScComp05)

**SET: B**

**Program (Specific):** Computer Science

**Class:**F.Y.BSc.(Computer Science)

**Course Type:**CC

**Name of the Course:**Problem Solving Using Computer & 'C' Programming

**Max.Marks:**35

**Code:** 22-CS-111

**Time:** 2Hr

**Paper:** I

**Instructions to the candidate:**

- 1) *There are 4 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labeled diagram wherever necessary.*

**SECTION: A**

**Q1) Multiple Choice Questions**

**5**

**i) Types of errors occurs in programming languages**

- a) Writing error   b) Syntax   c) Semantic   d) Both b & c

**ii) Build in data types in C are**

- a) int   b) char   c)float   d) All of the above

**iii) The default statement is used in**

- a) while loop                      b)for loop  
c) switch-case                      d) none of the above

**iv) What is the initial value of register storage class ?**

- a) 0                      b) Null  
c) Garbage   d) Infinte

**v) Array elements are always stored in \_\_\_\_\_ memory locations.**

- a) Sequential                      b) Sequential & Random  
c) Random                      d)None of the above

**Q2) Very Short Answer Questions (Attempt any 4/6)**

**4**

- i) State the syntax to declare 1-D & 2-D arrays.**
- ii) What is the purpose of the keyword 'void' ?**
- iii) Predict the output**

```
#include<stdio.h>

void main()
{
    int a=25;
    while(a<=27)
    {
        printf("%d",a);
        a++;
    }
}
```

- iv) What are the types of functions ?**
- v) Write the applications of C.**
- vi) Define algorithm .**

**SECTION: B**

**Q3) Short Answer Questions (Attempt any 4/6)**

**8**

- i) Write a Pseudocode to check number is positive or negative.**
- ii) Write Difference between getchar & gets.**
- iii) What is the use of 'Break' keyword ?**
- iv) Define storage class.**
- v) State any two advantages of functions.**
- vi) List any two applications of arrays.**

**SECTION: C**

**Q4) Short Answer Questions (Attempt any 4/6)**

**8**

- i) Write a program to print accepted number is even or odd.**
- ii) Write down the syntax of for & switch.**
- iii) Distinguish between constant & variable.**
- iv) State the role of automatic storage class.**
- v) List the different storage classes in c.**
- vi) write a C program to print square of umber using function.**

**SECTION: D**

**Q5) Long Answer Questions (Attempt any two of the following 2/4)**

**10**

- i) What are the rules of declaring variables in c ?**
- ii) Write a C program to print array in reverse order.**
- iii) Explain recursive function with example.**
- iv) Write a C program to print Cube of number using function.**