

Roll No.

**1st Semester,
Examination-2014**

MCA-11/PGDCA-11/M.Sc.(IT)-12

**(Master of Computer Application/Post Graduate
Diploma in Computer Application/Master of
Science in Information Technology)**

MCA-03/PGDCA-03/M.Sc. IT - 03

Computer Programming Using C

Time : 3 Hours

Maximum Marks : 60

**Note : The question paper is divided into three sections
A, B and C. Give the answer according to the
directions given in each section.**

Section-A

(Long Answer Type Questions)

Note : Answer any two questions. Each question carries 15 Marks.

(2×15=30)

1. Explain the following bitwise operators :

(a) Bitwise AND

- (b) Bitwise OR
 - (c) Bitwise XOR
 - (d) Bitwise Left Shift
 - (e) Bitwise Right Shift
2. (a) What is the difference between the array of pointer and pointer to the array ?
- (b) Explain the difference between calling function and called function.
3. (a) Differentiate between local variable and global variable.
- (b) Differentiate between relational and logical operators used in C.
4. (a) Write a C program to find the maximum of three number using conditional operators.
- (b) Write a C Program to sort an array in ascending order.

Section-B

(Short Answer Type Questions)

Note : Answer any four questions. Each question carries 5 Marks.

(4 × 5 = 20)

- 1. Distinguish between fprintf() and printf()
- 2. Distinguish bet malloc and calloc()

3. What is the scanf() and how does it differ from the getchar() ?
4. What is meant by register variable and what is the scope of it ?
5. Why is goto not necessary for the structured programming language like C ?
6. Explain any 4 string functions with suitable example.
7. Explain the types of storage classes.
8. What is Array ? Explain the types of array.

Section-C

Objective Type Questions (Compulsory)

Note : Answer all questions. Each question carries 1 Mark.

(10 × 1 = 5)

1.

```
void main() {  
    long int a,b=10;  
    ++a=b++;  
    printf("%d %d", a,b);  
    getch();  
}
```

What will be output if you will execute above code ?

- (a) 10 10
- (b) 11 11
- (c) 0 11
- (d) Compiler error
- (e) None of the above.

```
2.      #include "stdio.h"

        void main(){

            char a = '\\';

            clrscr();

            printf("%c",a);

            getch();

            {
```

What will be output if you will execute above code ?

- (a) \
- (b) \\
- (c) Print nothing
- (d) Compiler error

3. What the following function call mean ?

Strcpy(s1, s2);

- (a) copies s1 string into s2
- (b) copies s2 string into s1
- (c) copies both s1 and s2
- (d) None of these

4. Which of the following is not a keyword of 'C' ?

- (a) auto
- (b) register
- (c) int
- (d) function

5. By default a function returns a value of type :

- (a) int
- (b) char
- (c) void
- (d) None of these

6. Which is valid string function ?
- (a) stpbrk
 - (b) strlen
 - (c) strxfm
 - (d) struct
7. Which of the following is used as a string termination character ?
- (a) 0
 - (b) \0
 - (c) /0
 - (d) None of these
8. What is the output of the following program ?
- ```
void main(){
 int x=40;y=30;z=80;
 if(x<y<z)
 printf("\n Hello world");
 else
 printf("\nGood by");
```

- (a) Hello world
- (b) Good by
- (c) Compiler time error
- (d) None of these

9. The C language consist of ..... number of keywords.

- (a) 32
- (b) 40
- (c) 24
- (d) 56

10. Which function reallocates memory ?

- (a) realloc
- (b) alloc
- (c) malloc
- (d) None of these

