

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2010 Batch) (Sem.-1)
PROGRAMMING IN C
Subject Code : BC-104
Paper ID : [B0204]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

1) Write briefly :

- a) List any four keywords in C.
- b) What is the difference between j++ and ++j?
- c) What is the difference between gets and puts functions?
- d) Write a function Is_Even(int n) in C to print that integer n is even or not.
- e) What are static variables?
- f) What is meant by data types?
- g) What are self referential structures?
- h) What is union?
- i) Define entry controlled loops with the help of example.
- j) What is the output of the following code :

```
#include<stdio.h>
Void main()
{
int i, j=10;
for(i=1; i<=10; i++; j++)
if(i==5)
break;
printf("%d%d", i, j);
}
```

SECTION-B

- 2) What is an Operator? Explain the arithmetic, relational, logical, and assignment operators in C language.
- 3) Explain the different control statements in C with syntax and example.
- 4) What is an Array? Explain the declaration and initialization of one and two dimensional arrays with the help of a C program.
- 5) Write a C Program to implement the binary search.
- 6) Write a C function *isprime*(num) that accepts an integer argument and returns 1 if the argument is prime, a 0 otherwise. Write a C program that invokes this function to generate prime numbers between the given ranges.
- 7)
 - a) Explain how the structure variable is passed as a parameter to a function with example.
 - b) Write a C program to read and display a text from the file.