

7. (a) Write a program to generate the table of number entered by user using Recursion. (8)
- (b) What is the difference between feof and EOF function ? (4)
- (c) What is Recursion ? What advantage is there in its use ? (4)

#### UNIT-IV

8. (a) Write a program using pointers to concatenate two given strings. (8)
- (b) Write a program to add two matrices using static statement and global variables. (8)
9. (a) Write a program to extract a substring from the given string. (8)
- (b) Write a program to find the highest of three numbers using pointer to function. (8)

Roll No. ....

**97665**

**B.C.A. 2nd Semester**

**Examination-May, 2017**

**C Programming**

**Paper-BCA-106**

**Time : 3 hours**

**Max. Marks : 80**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

**Note :** Attempt **five** questions in all. Question No.1 is **compulsory** and attempt **four** more questions by selecting **one** question from each unit. All questions carry equal marks.

**1. Compulsory question**

- (a) What are identifier and constants ?
- (b) What is the difference between float and double variable ?
- (c) What is the role of control variable in for statement ?

- (d) What is an array ? How it differs from the ordinary variable ?
- (e) What is the purpose of return statement ?
- (f) What is a pointer ? What is its significance ?
- (g) What are the storage classes ? Give the classification of storage classes.
- (h) What is assignment operator (=) in C ? How does it vary from equality operator?

### UNIT-I

- 2. (a) Explain the following: (9)
  - (i) Precedence of operators
  - (ii) Comment statement
  - (iii) Stdio.h header file.
- (b) Write a program to obtain the gross salary by calculating dearness allowance and house rent. (7)
- 3. (a) What are the basic data types in C ? (8)
- (b) Write a program to find sum of the digit of a number. (8)

### UNIT-II

- 4. (a) Explain the if-else loop structure. (4)
- (b) How break and continue statements work in repetitive statement ? (4)
- (c) Write a program to find whether the given number is even or odd and if it is odd find whether it is prime or not. (8)
- 5. (a) What is the purpose of While and Do-while statement? What is the minimum number of times while and do-while statement will be executed ? (8)
- (b) Write a program to find reverse of a number and check whether it is palindrome or not. (8)

### UNIT-III

- 6. (a) What do you mean by Function Prototyping ? Write down the advantages of function prototypes in C. (8)
- (b) Write a program to read five numbers from a file and calculate average of the numbers and print in another output file. (8)