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 concate 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) Precence 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)

(b) What is storage class ? Explain the any *two* storage classes in C language with their scopes in detail.

Roll No. .....

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BCA - 2nd Semester
Examination – April, 2018

'C' PROGRAMMING

Paper : BCA-106

Time : Three Hours] *[Maximum 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 examination.

Note : Attempt ***five*** questions in all. Question No. 1 will be ***compulsory***. In addition to compulsory question, student will have to attempt ***four*** more questions selecting ***one*** question from each Unit.

1. (a) What is the difference between printf( ) and scanf( ) ?

(b) Explain the difference between getch ( ) and putch ( ).

(c) What do you mean by string constant ?

(d) What is ELSE-IF ladder ?

(e) Uses of switch statement.

(f) What do you mean by global variable ?

(g) What do you mean by decision making ?

(h) What is recursion ? Explain.

UNIT – I

2. Explain the following in detail :

(a) History and structure of C programming

(b) Importance of C programming language

3. (a) What do you mean by Operators in C Language ? Explain arithmetic Operators, logical operators and bitwise operators used in C Language in detail.

(b) Explain the following :

(i) Data types

(ii) Identifier and keywords.

UNIT – II

4. (a) What are nested loops ? Explain through suitable example.

(b) Explain the difference between while loop and do while loop through an suitable example.

5. Explain the following through example in detail :

(a) Nested If statement and If-Else statement

(b) For loop and jumps in loops

UNIT – III

6. What is a function ? How can you pass parameters to a function ? Also explain the various string manipulation functions in detail.

7. (a) What is user defined function ? How it is created ? Explain with the help of suitable example.

(b) Explain the Input & Output functions used in C language in detail.

UNIT – IV

8. (a) What is Array ? Explain its Different types. Also explain the concept of passing arrays to functions through example.

(b) What is pointer ? Explain the uses of pointer in C language with example.

9. (a) What do you mean by Algorithm and Flowchart ? What are the various basic symbols used in flowcharting ? Explain in detail.

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BCA 2nd Semester
Examination – May, 2019

C PROGRAMMING

Paper : BCA- 106

Time : Three hours] *[Maximum 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 examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is ***compulsory***. All questions carry equal marks.

1. Write short note on the following : 4 × 4 = 16

(i) Elements of C

(ii) Switch statement

(iii) Input functions

(iv) Pointers

UNIT – I

2. Define 'C' Language. Explain its importance and elements. Also explain about data types. 16

3. Explain the following : 16

(i) Operator Hierarchy & Associativity

(ii) Type casting and conversion

UNIT – II

4. Describe the following : 16

(i) ELSE-IF ladder

(ii) Nested IF statement

5. Explain the following : 16

(i) Jumps in Loops

(ii) Nested Loops

UNIT – III

6. Explain in detail about user defined functions. 16

7. Describe the following : 16

(i) Unformatted & Formatted I/O

(ii) Input functions

UNIT – IV

8. Explain the following : 16

(i) Declaration and Initialization of strings

(ii) Pointers

9. Describe the following : 16

(i) Storage classes in C

(ii) Flow charting
