

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

IT-IV

8. (a) Write a program using pointers to concatenate two strings. (8)
- (b) Write a program to add two matrices using static variables 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)

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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 different types of classes? Give the classification of classes.
- (h) What is assignment operator (=) in C? How does it differ from equality operator?

UNIT-II

2. (a) Explain the following: (9)
- Precedence of operators
 - Comments
 - 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 different data types in C? (8)
- (b) Write a program to find sum of the digits 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)