

Roll No.

S-8041

B. C. A. (First Semester) Examination, 2017-18

Paper First

BCA - 501

[Programming in 'C']

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

- Q1. (a) Distinguish between machine, assembly, low level and high level language? 7
(b) Explain the features and characteristics of procedural and object oriented languages? 7
- Q2. (a) What is meant by type conversion? Why is necessary? 7
(b) Write a program to find out the leap year? 7
- Q3. (a) Explain pre and post decrement and increment operation on a variable with an example? 7
(b) Differentiate between built in function and user defined function? 7
- Q4. (a) Explain recursion with suitable example? 7
(b) Write a program to swap two numbers with out using third variable? 7
- Q5. (a) Explain the difference between structures and union with example? 7
(b) What is an array? What are the advantages and disadvantages array in 'C' language? 7
- Q6. (a) Explain the following string handling functions with examples. 7
(i) Strcpy (ii) Strcat (iii) Strrev (iv) Strlen
(b) Write a program to add 2-dimensional array? 7
- Q7. (a) Explain different parameter passing techniques in functions with example? 7
(b) Explain all the debugging techniques? Why it is necessary in 'C' language? 7