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KBE-5401 Seat No. First Year B. C. A. (Sem. II) Examination April/May - 2012 BCA-201 : Advanced Programming Language 'C' (New Course) Time: 3 Hours] [Total Marks: 70 1 Attempt following questions: 6 (a) What is Recursion? (i) (ii)Write a difference between formal parameter and actual parameter. (iii) Write a general syntax of function definition. Attempt following questions (any one) (b) 6 Which are the different categories of function? (i) Explain any two categories with example. How can you pass an array as function (ii)argument? Explain with suitable example. 2 attempt following questions: (a) 6 Write a general format of structure definition. (i) (ii)What is the use of size of operator? (iii) What do you mean by union? Attempt following questions (any one) (b) Write a short note on structure within (i) structure.

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State the difference between structure and

- What is the difference between call by value (ii)and call by reference? Explain with suitable example.
- Attempt following questions: 6 (a) State the difference between getc() and (i) getu() functions
 - What do you mean by file? (ii)

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- (iii) What is preprocessor directives?
- (b) Attempt following questions (any one)
 - (i) Explain command line argument with suitable example.
 - Write a short note on macro substitution. (ii)
- Attempt following programmes (any two) 5 (a) 10
 - Write a program to find factorial of given (i) number using user define function.
 - Write a function prime that returns one (ii)(1) if it's argument is a prime number and returns zero (0) otherwise.
 - (iii) Design a structure student record to contain name, branch and total marks obtained. Develop a program to read data for 5 students in a class and print them.

- (b) Attempt following programmes (any two)
 - (i) Write a program using pointer to determine the length of character string.

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- (ii) Write a program to accept 10 numbers and sort them with the use of pointer.
- (iii) Write a program to read data from keyboard, write it to a file called input and display data of input file on the screen.

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