



DHARMSINH DESAI UNIVERSITY, NADIAD

FACULTY OF TECHNOLOGY

B.TECH. SEMESTER II [IT/CE/MECH]

SUBJECT: (CT 213)COMPUTER PROGRAMMING IN C

Examination : Block Exam

Seat No. : _____

Date : 03/05/2013

Day : Friday

Time : 11:00 to 12:15

Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
 2. The symbols used carry their usual meanings.
 3. Assume suitable data, if required & mention them clearly.
 4. Draw neat sketches wherever necessary.
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Q.1 Answer the Following : [12]

- (A) What is the functionality of strcat() & strlen() function? [2]
- (B) Can i use same variable names in different function without any conflict? Justify your answer. [2]
- (C) **State True/False with proper justification.** [2]
 - (i) In switch statement break is compulsory.
 - (ii) A function in C should have at least one argument.
- (D) State difference between static and global variables. [2]
- (E) What is special about void pointer? Give an example. [2]
- (F) What is the significance of EOF? [1]
- (G) If a=4 & b=5 then what should be the value of the following C statements: [1]
printf (“%d”, a-a != b);

Q.2 Answer the following questions.(Any Three) [12]

- (A) Write a program to solve the series **sum = 1-2+3-4+5.... n** where n is entered by user. [4]
- (B) What do you mean by Pointer to Function ? Explain with proper example. [4]
- (C) Write a program to find out the factorial of given no. using Recursive Function. [4]
- (D) Write a program to insert an element into an array. [4]

Q.3 Answer the following questions. [12]

- (A) Write a Program to display only odd bytes of the File “data.txt” [6]
- (B) Define a structure containing the information of zoo. For each animal, the members are name of animal, food and total no. of animals. Take input for at least 5 different animals. Write a program to print a list of animals sorted by name. [6]

OR

Q.3 Answer the following questions. [12]

- (A) Write a program to compare two file contents say “data1.txt” & “data2.txt” using command line argument. [6]
- (B) Write a program using pointers to count the number of words, spaces, tabs, characters in a given string. [6]