



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**B.TECH. SEMESTER II [IT/CE/EC/IC]**  
**SUBJECT: C PROGRAMMING- II**

**Examination : Second Sessional**      **Seat No. : \_\_\_\_\_**  
**Date : 11/02/2015**      **Day : Wednesday**  
**Time : 04:00 to 05:15pm**      **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.

**Q.1 Answer the Following :** [12]

- (A) Parameters used in function call are called\_\_\_\_\_ and those used in function prototype are called\_\_\_\_\_. [2]
- (B) Can I use same Local variable names in different function without any conflict? Justify your answer. [2]
- (C) **State True/False with proper justification.** [2]
- (i) The gets() and scanf() automatically appends a null character at the end of the string read from keyboard.
- (ii) Specifying variable names in function declaration is compulsory.
- (D) Local variables overwrite the value of global variables. Explain with small example [2]
- (E) Write logic to print pascal triangle. [2]
- (F) What is the functionality of strstr( ) & strchr( ) function? [1]
- (G) If an array is declared as double a[50], how many bytes will be allocated to it? [1]

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

- (A) 

(i) Give output for following void main() { char s1[]={ 'H', 'I'}; char s2[]={ 'H', 'I', '\0'}; if(strcmp(s1,s2)==0) printf("Equal"); else printf("Not Equal"); } 	(ii) Give output for following void main() { char s1[]="100st25" char s2[10]; printf("s1=%d", atoi(s1)); printf("s2=%s", itoa(20, s2, 2)); getch(); } 
---	---

 [4]
- (B) Explain various storage classes supported in C. [4]
- (C) Write a program to find out the factorial of given no. using **Recursive Function**. [4]
- (D) Explain string handling functions in detail with example. [4]

**Q.3 Answer the following questions.** [12]

- (A) WAP to count number of positive, negative and zero elements from 3 x 3 matrix. [6]
- (B) WAP using **user defined function** to find whether given string is palindrome or not. [6]

**OR**

**Q.3 Answer the following questions.** [12]

- (A) Write a program to Insert a particular character in the given string. [6]
- (B) WAP using **user defined function** to sort an array of integers. [6]