



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**B.TECH. SEMESTER II [CE/IT/MECH]**  
**SUBJECT: (CT-213) Computer Programming in 'C'**

**Examination** : Block  
**Date** : 02/05/2014  
**Time** : 11:00 to 12:15

**Seat No.** : \_\_\_\_\_  
**Day** : Friday  
**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 Do as directed.**

- (a) Give the output for the following [12]  
[2]

```
void main()
{ char str[]="124z3yu";
  printf("str=%d", atoi(str));
}
```

- (b) Give the output for the following and Explain [4]

```
void main()
{ char str1[]="Hello", str2[]="Hello";
  If(str1==str2)
  { printf("Equal"); }
  else
  { printf(" Not Equal"); }
}
```

- (c) How does an append mode differ from a write mode? [2]

- (d) State True or False & Justify your answer: [4]

- 1) A program stops its execution when a **break** statement is encountered.
- 2) Using **fseek** to position a file beyond the end of file is an error.
- 3) The function **strcmp**("and", "ant") will return a positive value.
- 4) A user defined function can be defined in the main().

**Q.2 Attempt following questions.**

- (a) Write a C program to read a text, delete all the semicolons (;) it has and finally replace all '.' With ','. [12]  
[4]

- (b) Explain pointer to pointer with Example. [4]

- (c) 1) Consider the following code segment: [4]

```
int a[10], *p1, *p2;
p1 = &a[4];
p2 = &a[6];
```

Which of the following statements is incorrect w.r.t. pointers and why?

- (A)  $p1 + 2$       (B)  $p2 - 2$   
(C)  $p2 + p1$       (D)  $p2 - p1$

- 2) Give output if the following values are the input to the scanf? [4]

```
10,20,30,40,-1
int main()
{
  int sum=0, num;
  scanf("%d",&num);
  while(num != -1)
  {
    sum += num;
    scanf("%d", &num);
  }
  printf("sum =%d \n",sum);
  return 0;
}
```

- Q.3** (a) WAP by using structure **emp** to read the following information of 10 employees. [6]  
Employee name, number, experience (in years) and salary. The program should print the number and names of all the employees who have 6 years or more experience but salary less than Rs. 15000  
(b) WAP to read a string from file test1.txt and reverse it and print the output on screen. (Assume file contains "Good Morning" string) [6]