



DHARMSINH DESAI UNIVERSITY, NADIAD  
**FACULTY OF TECHNOLOGY**  
**B.TECH. SEMESTER – II [CE/EC/IT]**  
**SUBJECT:(CT–215) C PROGRAMMING-II**

Examination	: Block Exam	Seat No	: _____
Date	:	Day	:
Time	:	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.

<b>Q.1 Do as Directed</b>		
(a)	Explain following terms: 1) bit field 2) slack byte	[2]
(b)	With example explain use of ferror() and feof() functions.	[2]
(c)	Demonstrate how Compiler controller directives can be used in debugging	[2]
(d)	Explain working of following string handling functions 1) strstr 2) strncat	[2]
(e)	Differentiate the following: 1) Structure with union. 2) Static and Dynamic array.	[4]
<b>Q.2 Answer the following questions (Any TWO)</b>		
(a)	Define a structure <b>Date_format</b> containing three members integer month, integer date and integer year. Develop a program that would assign values to the individual members and utilize the following functions. 1) Create a display_dt() function to show the date in following format: 10/08/2018 2) Create a display_mnt() function to show the date in following format: 10-AUG-18	[6]
(b)	Write an algorithm to delete all nodes with data(character) 'A' from singly linked list.	[6]
(c)	Given are two one-dimensional arrays A and B which are sorted in ascending order. Write a program to merge them into single sorted array C that contains every item from array A and B, in ascending order.	[6]
<b>Q.3 Answer the following questions.</b>		
(a)	Write a program to overwrite all occurrences of particular character by new character from the given string.	[6]
(b)	Explain with Example(s): Functions used in random access of files	[6]
<b><u>OR</u></b>		
<b>Q.3 Answer the following questions</b>		
(a)	Implement following string library functions: 1) stralt(s); // Alter position of every even and odd characters of string. 2) strnset(char str[], char ch, int n); // Set last <i>n</i> character of string <i>str</i> to character <i>ch</i> .	[6]
(b)	Design a structure Student_data to contain name, cpi and rno. Develop a program to read data for 10 students in a class. Sort structure's variable based on cpi and display sorted output.	[6]