

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY **B.TECH. SEMESTER II[IT/CE/MH]**

SUBJECT: (CT 213) COMPUTER PROGRAMMING IN C

Examination: Second Sessional Seat No. : 05/03/2014 : Wednesday Date Day

Tim	e	: 03:45 to 5:00	Max.	Marks	:	36	v		
INST	TRUCT	TIONS:							
1. 2. 3.	Figure The sy Assun	s to the right indicate maximum m rmbols used carry their usual mean ne suitable data, if required & ment	ings.	•					
4. Q.1		neat sketches wherever necessary.	1.0						[12]
Ų.1		Something questions: [Output							
	(C)	Explain Formal parameters and Actual parameters with example. Difference between auto and static variable.							[2] [2]
	(D)	Write the logic to print the Pascal triangle.							[2]
	(E)	· • • • • • • • • • • • • • • • • • • •							[4]
		(i) int value(int a) { a>20 ? return(10); retu void main() { int a=value(20); printf("%d",a); }	arn(20); }	{ ir	nt ai or(i=	main() rr[3]={2 =0;i<3;i tf("%d\			
Ω_2	Anc	wor the following questions:						[12]	
Q.2	 (A) Write a program to swap the biggest and smallest number in the array of elements using function. Create three functions "FindBig()", "FindSmall()" "swap()". "FindBig()" and "FindSmall()" these functions are used to find big small elements, and "swap()" will work for swapping those numbers. Pass arra an argument to all functions. 								[6]
	(B)	Answer the following ques							[6]
	(=)	 (i) Write a program to extract last N characters from the string and display it. (ii) Find the error if any, correct it and write the output for the following code: void main() 						[4] [2]	
		{ int i; char s1[]="Dharmsinh] while(s1[i]!=\0') { if(i%2 = = 0) printf("%c",s1[i]); i++; } }	Desai Univ	ersity";					
		, , ,		OR					
	(C)	Answer the following questions: (i)Write a program to check whether the string is palindrome or not. Display							[6] [4]
		appropriate message. (ii) Find the error if any, c void main() { int a=25,b=20; { int a=10; int c=a%b; printf("%d",c); } b=c;	orrect it a	nd write	the	outpu	it for the	following code:	[2]
		<pre>printf("%d",b); } }</pre>							
Q.3	(A)	swer the following questions: Write a program to calculate GCD using recursive function. Write a program to read an array of 10 floating point numbers. Display the position							[12] [4] [4]
	(C)								[4]
Q.3	Ano	OR Answer the following questions:							[12]
Ų.J		Write a program to calculate x^y eg. 2^4 that is 16).		using rec	urs	sive fu	nction. (Y	You have to find	
	(B)	Write a program to find XA		A & B a	are t	two 3X		es. Here value of	[4]
	(C)	X and Y will be taken from Explain Table of String with							[4]