Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-1st / 2nd EXAMINATION- WINTER 2015

•		le: 110003 Date:30/12/20	15
•		ne: Computer Programming and Utilization	
		am to 01:00pm Total Marks:	70
Instru	2. Ma	empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks	
Q.1	(a) (b)	Explain the structure of 'c' program What will be the output of following program segment? int a=2, j=4, k; float a,b; k=i/j*j; a=i/j*j; b=j/i*I; printf("%d,%d%f, k,a,b);	14
	(c)	Write the syntax of scanf() function and printf() function.	
Q.2	(a) (b)	Explain the syntax of multiple ifelse statement. Write a program that converts Fahrenheit temperature to centigrade Cent.=5/9(fahr32) Write a program that evaluates the polynomial 4x ³ -5x+9	14
	(c)	write a program that evaluates the polynomial 4x - 3x+9	
Q.3	(a) (b) (c)	What are the different types of looping structures? Compare break statement with continue statement. Write a program to print following pattern using loop 1 1 3 1 3 5 1 3 5 7	14
Q.4	(a)	For the declaration as int a[10]; the last element is stored at a[9], is it	14
Q.4	(a) (b)	true? explain your answer. What is string? what are the operations that can be performed on string?	14
	(c)	Write a program to multiply two matrices A and B of size $3*3$ and store the answer in matrix C . C = $A*B$.	
Q.5	(a)	Explain following string manipulation functions Strstr(), strchar(), strlen()	14
	(b)	Write a program that read two strings and compare them using the function strcmp() and print message that first string is equal, less, greater than second one	

- **Q. 6** (a) What is pointer? explain how pointers are declared an initialized?
 - (b) Write a program to find factorial of a given number using recursion.
 - (c) What are the difference between local and global variables?
- **Q.7** (a) Explain how the members of structure can be accessed?
 - (b) What is nested structure? explain with suitable example.
 - (c) Explain in brief fscanf(),and fprintf() function in handling data types from a file.

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