Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER - I • EXAMINATION - WINTER • 2014

Sı	ubjec	t code: 110003 Date: 01-01-2015	
	-	t Name: Computer Programming and Utilization 10:30 am - 01:00 pm Total Marks: 70	
		ctions:	
11.		. Attempt any five questions.	
		2. Make suitable assumptions wherever necessary.	
	3	3. Figures to the right indicate full marks.	
Q.1	(a)	What is Algorithm and flowchart? Explain both with suitable example	07
	(b)	Write Types of IFElse statement with example.	07
Q.2	(a)	Write a program to demonstrate use of	07
		• for ()	
		while() loop.	
	(b)	Explain Following with Simple example	07
		 (1) Friend function (2) Pointer (3) Scope and life time of variable (4) Bitwise operators (5) Object (6) 'void' – data type (7) Dynamic memory 	
		allocation	
Q.3	(a)	State the difference between Structure and Union with appropriate example.	07
•	(b)	Write a short note on	07
		a. Inheritance	
		b. static member function	
Q.4	(a)	Write the short notes on following.	07
~··	(u)	a. Polymorphism	0.
		b. Difference between Object Oriented and Procedure Oriented language.	
	(b)	What is pooner? Give its benefits. Write a program to do swapping of two	07
		elements bointers.	
Q.5	(a)	Explain streat(), strepy(), strncmp() and strstr() string manipulation function.	07
	(b)	Write a program to store 20 numbers in an array. Then find out Sum, Average of these 20 numbers.	07
		these 20 humbers.	
Q.6	(a)	Write a program to generate Fibonacci series of numbers (total 30 numbers)	07
	<i>a</i> >	i.e. 1, 1, 2, 3, 5, 8etc	0.
	(b)	Explain Following with Simple example (1) Token (2) Identifier (3) Constant (4) Type casting (5) Destructor	07
		(6) Storage class (7) Inline function	
Q.7	(a)	What is an Array? Explain two dimensional array with suitable sample program	07
Q.	(a)	in 'C'	U
	(b)	Write a program to print the following triangle for 4 lines	07
		1	
		2 3	
		4 5 6	
		7 8 9 10	

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