Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER - I • EXAMINATION - WINTER 2012

•			17/01/2013	
•	10.30	•	Marks: 70	
2	2. Ma	tempt all questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.		
Q.1	(a) (b)	Draw basic block diagram of computer and explain each comp Explain various input and output devices for computers.	ponent of it.	07 07
Q.2	(a)	Write an algorithm and draw flow chart to find minim numbers.	num of three	07
	(b)	Write a program to compute Income tax when total income is Income Up to Rs. 50,000 Rs. 50,001 to 60,000 Rs. 60,001 to 1,50,000 Rs. 1,50,001 or above	given. Tax Nil 10% 20% 30%	07
Q.3	(a) (b)	Total tax to be payable is calculated by adding 15% surcharge to the tax computed using above table. What is Constant? Explain different constant with example. Write a 'C' program which displays the Floyd's triangle. 1 2 3 4 5 6 7 8 9 10		07 07
Q.4	` '	Explain various types of loops in 'C' with examples. Write a program to print first N Fibonacci numbers using for loop. i.e. 0,1,1,2,3,5,8,13,N		07 07
Q.5	(a) (b)	Explain initialization of One and Two dimensional arrays in 'C'. Write a program to arrange array of N elements into ascending order.		07 07
Q. 6	(a) (b)	List benefits and applications of object oriented programming C++. Explain expressions and their types in C++.		07 07
Q. 7	(a) (b)	Explain constructors and destructors for C++ language. Write a C++ program of calculating Factorial of numbers us function.	sing recursive	07 07
