GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- 1st / 2nd (OLD SYLLABUS) EXAMINATION - SUMMER 2015

Subject Code:110003 Date: 10/06/20 Subject Name: COMPUTER PROGRAMMING AND UTILIZATION			5
	•	.30am-01.00pm Total Marks: 70	
	tructio	•	
	1.	Attempt any five questions.	
	2.	Y	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Select an appropriate answer from multiple answers.	07
	(a)	1. C programming is level language	U1
		(1) Middle level (2) High Level (3) Low lever (4) None of These	
		2. What is input given to Compiler?	
		(1) Object Code (2) Executable Code (3) C Program source Code	
		(4) None of These	
		3. Which is of the flowing is an invalid assignment operator?	
		(1) $a \% = 10$ (2) $a /= 10$ (3) $a!= 10$ (4) None of These	
		4. The single character input/output function are?	
		(1) scanf() and printf() (2) getchar() and printf()	
		(3) scanf() and putchar() (4) getchar() and putchar()	
		5. What is the output of C Statement 7.5 % 3?	
		(1) 1 (2) 1.5 (3) No output (4) Error	
		6. We declare a function with if it does not have any return type (1) long (2) double (3) void (4) int	
		7. The break statement is used to exit from:	
		(1) a DO loop (2) a For loop (3) a SWITCH statement (4) All of these	
		(1) a Bo loop (2) a for loop (3) a B wittern statement (1) thi of these	
	(b)	What is flowchart? Draw a flowchart to find largest among three numbers.	07
Q.2	(a)	Explain the different data types and mathematical expressions of C language	07
	(3.)	with example.	۰.
	(b)	Write a C Program to calculate the area of a Circle. The formula to calculate the	07
		area is: Area = $\pi \times r2$ where r is the radius of the circle & π value is 22/7.	
Q.3	(a)	Explain various types of loop available in C programming language with	07
		example.	
	(b)	Write a C Program to print half pyramid as using * as shown in figure	07
		below.	
		*	
		* *	
		* * *	
		* * * *	
		* * * * *	
Q.4	(a)	What is function? Explain the function definition, function prototype and	07
		function call with relative example.	
	(b)	Write a C program to call a function to find sum of first n natural numbers using recursion.	07
		Note: Positive integers are known as natural number i.e. 1, 2, 3n	

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Q.5	(a)	What is pointer in C? Give its benefits also explain Array of pointer with relative example.	07
	(b)	What is file handling in C? Explain Naming a file, Opening a file, Reading from a file, Writing data into a file and Closing a file with its function.	07
Q.6	(a)	Describe following string functions in C-Language. 1. strcpy() 2. strcat() 3. strcmp()	07
	(b)	Write a C program to Concatenate two strings.	07
Q.7	(a)	Defines union and a structure in C? Explain with relative examples and shows its differences in your examples.	07
	(b)	Write a C Program to store information (Name, Roll No., and Marks) of 10 students using structure	07
