[Total Marks: 70

GANPAT UNIVERSITY B. TECH. SEM. – I (CE/IT/EC/BM&I) REGULAR EXAMINATION NOV-DEC 2012 CE 101: COMPUTER PROGRAMMING

Time: 3 Hours]

Instructions:

1. Figures to the right indicate full marks.

2. Each section should be written in a separate answer book.

3. Be precise and to the point in your answer.

SECTION-I

01	(a)	What is Flowchart? Draw the flow chart of compilation process.	(5)
Q.1	(a) (b)	List out the C tokens & Explain any three C token with suitable examples.	(5)
		Explain the following terms: 1) Compiler 2) Editor	(3) (2)
	(c)	OR	(4)
01	(2)		(5)
Q.1	(a)	Discuss the need of programming language & Give the features of C.	(5)
	(b)	List the various data types of C with its size (bytes) and format specifies.	
	(c)	Give the difference the between integer constant & integer variable.	(2)
~ *			10
Q.2	(a)	Explain Switch statement with its syntax, flowchart and program.	(6)
	(b)	Discuss the Postfix and Prefix with proper examples.	(5)
		OR	10
Q.2	(a)	Explain elseif ladder with its syntax, flowchart and program.	(6)
	(b)	Discuss getch (), getche (), getchar (), putchar () & clrscr () with proper example.	(5)
Q.3	(a)	Write a 'C' program that will read the value of x and evaluate the following	(6)
		function	
		y-1 (11 x > 0)*	
		$y = -1 \text{ (if } x < 0) \qquad \qquad boundary of value of the order of the $	
		(e) Give the output of following with proper justification.	
		Using,	
		(a) Nested If structure.	
		(b) Else if statements,	
ŕ		(c) Conditional operator.	
	(b)	Write a 'C' program to display the prime numbers between 1 to 100.	(6)
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		SECTION-II	V
Q.4	(a)	Write a program to display the starts as shown below	(5)
		333 4444	•
	Build	55555	
	(b) (c)	Define array & Discuss 2-D array with example. What is the need of user-defined functions?	(5) (2)
Q.4	(a)	Write a 'C' program to sort any five integer elements into descending order.	(5)
	(b) (c)	Explain the difference between Break & Continue in loops with Example. Define the following terms: 1) Scope 2) Lifetime.	(5) (2)
Q.5	(a) (b)	Explain Storage class with suitable examples. Write a 'C' program to reverse the given string without strrev () function.	(6) (5)
Q.5	(a) (b)	Write a user defined function to find out the factorial of given number. Define Structure & Write a 'C' program using structure to read & print the following data of 3 students on the screen :	(6) (5)
		 [a.] Roll no. [b.] Student name [c.] Branch [d.] Mobile number 	
Q.6	(a)	Explain the following String functions :	(4)
		i) strrev() ii) strcat() iii) strncpy() iv) strupr()	
	(b)	Fill in the following blanks :i) The keyword can be used to create data type identifier	(4)
		 i) The keyword can be used to create data type identifier. ii) The operator cannot be used with real operands. iii) The ternary statement could be easily coded with statement. iv) The printf function may be replaced by function to printing a string. 	
	(c)	Give the output of following with proper justification.	(4)
		i.) void main() void main()	
		void main() void main()	
		int n; n=sizeof(3.14); int i=-1,j=-1,k=0,p=2,m; m=i++&&i++&&k++ p++;	
	り	$ \begin{array}{ccc} n=sizeof(3.14); & m=i++\&\&j++\&\&k++ p++; \\ printf(``%d'",n); & printf(''%d %d %d %d %d %d'',i,j,k,p,m); \\ \end{array} $	
		END OF PAPER	