NRT/KS/19/2207

Bachelor of Computer Application (B.C.A.) Semester–I Examination "C" PROGRAMMING

Paper-II

Time	Time : Three Hours] [Maximum		
N.B		(1) All questions are compulsory and carry equal marks.(2) Draw well labelled diagram wherever necessary.HER	
1.	(a) (b) OR	What do you understand by programming structure? Explain in brief. Define flowchart. Draw a flowchart to find greatest among three numbers.	5 5
	(c) (d) EIT	Define algorithm. Write an algorithm to find whether a given year is leap year or not. Give the difference between algorithm and pseudocode. HER	5 5
2.	(a) (b)	What is data type? Explain different data types supported by 'C-language'. Write and explain a program in 'C' to print half pyramid using alphabets as given below: A B B C C C D D D D E F F F F	5
	OR	EEEEE	3
	(c) (d)	What is ternary operator? Explain giving suitable example. Write a program in 'C' to print numbers from 1 to N using while loop.	5 5
3.	EITHER (a) Define array. Write a program in 'C' to delete an element from one dimensional array at a given position. 5		
	(b)	Write any five string manipulation functions provided by 'C' language? Explain with suita example.	_
	OR		
	(c)	Write a program in 'C' to illustrate function with:	
		No argument and no return value.	5
		What is storage class? Explain various storage classes with suitable examples.	5
		HER	_
4.	(a)	Give the difference between structure and union.	. 5
	(b)	How will you declare pointer to pointer? Write a 'C' program to read two integers and determ bigger of the two with the help of function big() returning an integer pointer.	nine 5
	OR		_
	(c)	What is file? Describe various modes to open a file with suitable examples.	5
	(d)	(i) Create a structure student with the members Roll_No, Name, Marks.	
		(ii) Create the instances s1 and s2 of structure student.	
		(iii) Assign data to s1 using scanf() function.	5
5	(a)	(iv) Give the memory representation of s1. If $a = 10$, $b = 20$, then $a = (a+b) + (a-b) + 10$ and find the value of a, b, a	5 21/2
5.	(a)		$2\frac{1}{2}$ $2\frac{1}{2}$
	(b)		$\frac{2\sqrt{2}}{2\sqrt{2}}$
	(c) (d)		$\frac{2\sqrt{2}}{2\sqrt{2}}$
	(u)	Differentiate deliverit sequential and fandom access.	472