

K-19/211		SEMESTER-I	
Time Allowed	3 Hours	Computer Programming in C -112	Maximum Marks
			70

Note: Candidates are required to attempt five questions in all by selecting two questions each from section A and B and compulsory question of Section C.

Section A			
1.		Define the following: a. C Language character set b. Identifier c. Identifier naming rules d. Constant	10.5
2.		What are the various conditional control structures available in C? Explain each of them with the help of examples.	10.5
3.		Write a program for implementing matrix multiplication.	10.5
4.		Write a program to find ith largest and jth smallest elements from an array.	10.5
Section B			
5.		What are pointers? What is the difference between pointer and arrays? How arrays are passed as arguments to functions? Explain.	10.5
6.		Define functions. What are the different methods of passing parameters to functions? Explain giving examples.	10.5
7.		What are the various files related input/output functions? Explain giving suitable examples.	10.5
8.		Write a program to store and retrieve students' records from a random access file. The program should be able to access ith record from the file.	10.5
Section C			
9.		All questions are compulsory.	
	a.	What is the purpose of comma operator?	2
	b.	What are the various variable naming rules?	2
	c.	What is the difference between operator precedence and associativity?	2
	d.	Define recursion.	2
	e.	What is the difference between X++ and ++X?	2
	f.	What is a conditional operator?	2
	g.	What is a pointer to a function? How is it used?	2
	h.	What is the difference between the following declarations? a. int *x[10]; b. int (*x)[10];	2
	i.	Define recursion.	
	j.	How structure elements are initialized?	2
	k.	What is the difference between function definition and function prototype?	2
	l.	Define bit fields.	
	m.	Which functions are specifically related with random access file?	
	n.	Why is it necessary to close a file?	

13022/NB

13022/NB