C PROGRAMMING AND DATA STRUCTURES - BAP-201 Time Allowed: Three Hours

Note	Attempt five questions in all, selecting at least two questions from each Section A and B. Section A.	.60
_	C is compulsory. Use of Non-programmable scientific calculator is allowed. Section - A	101
1.	What are the various data types available in CD City of	
2.	What are the data type manipulators? Explain.	es
	What do you mean by iterative control structures? Elaborate each with the help of suital examples.	bl
3.	What do you mean by recursion? What are its advantages and disadvantages? Write a recursion to print the factorial of a given number.	$\frac{12}{iv}$
4.	What is a Pionter? What are advantages and disadvantages of pointers 2.11	ìż
	function to print the factorial of a given number. What is a Pionter? What are advantages and disadvantages? Write a recursive What is a Pionter? What are advantages and disadvantages of pointers? How can we display address of a variable? Differentiate between indirection operator and dereferencing operator. Section - B	۱þ۶
5.	What do you mean by data structures? What is the use of data structure ?	12
	What do you mean by data structures? What is the use of data structure? Discuss various and functions required to discuss data structures. Discuss in brief to	us
5 .	what do you mean by an array 2 What do you mean by linear and the discuss data structures. Discuss in brief to	12
	What do you mean by an array? What do you mean by linear array? How a linear array is story.	ęç
•	What up you mean by a mighe data structure? How a quaire data at the structure is the	Ck
2	data structure? Discuss the process of insertion and delection in a queue. What do you mean by sorting? What are various sorting techniques? Discuss any one in deta	12
		ijĮ.
	Explain brief notes on the following:	12
•	(a) What do you mean by reserve words and user defined words?	•
	(b) Differentiate among getch(), gethar() and getche(). (c) What do you mean by union? How it is different from structure?	5
	d) Different between linear and non-linear data satructures.	2
- (e) What is sparse array?	2
(f) How a linear search is different from binary search?	2

9