Roll No. Total Pages : 02

BT-7/M-20 37200

ADVANCED PROGRAMMING FF-409N

Time: Three Hours] [Maximum Marks: 75

Note AttemptFive questions in all, selecting atneeast question from each Unit. All questions carry equal marks. Use programming example where needed. Marks will be deducted the absence of programming example.

Unit I

- 1. (a) DefinedatastructureDiscussdifferentypesof array with example.7
 - (b) Define elementary data structure. Explain different types of link list with example. **8**
- **2.** (a) List differentheaderfiles used in C language. Discuss the role of taxes/header file with example.

(b) Differentiatee-queueand Priority queueand Circular queue.

Unit II

(a) Differentiat Binary and Indexed search with example.

(2)L-37200

			7
4.		e algorithm and time complexities for the following sorting method with suits	
	(i)	Radix Sort (ii) Quick Sort.2×7½	-
		Unit III	
5.	(a)	List different types of classes used in	C++. Explai
	<i>(</i> 1.)	anythree classes with example.	8
	(b)	Differentiatencapsulation abstraction Gi suitable xample.	ve 7
6.	(a)	Discuss various object modeling techn	niques used in
		C++.	7
	(b)		_
		are associated in C++.	8
		Unit IV	
7.	191	Differentiateunctionoverloadingand opera	ator
		overloading with example.	8
	(b)	Discuss polymorphism at compile time a	nd run time.
	0		7
8.	(a)	Explain parameterized constructor with	n 8 example.
	(b)	Discuss the role of Access modifier in	n 7 C++.
(2 \	L-372	200 2	