		,			THE VIEW DA CHEMICAL T			
EAT   25	No	M.Sc.IT (Sem-1)			.)	iges :		
Date: Friday			1CINT22: Advanced Programmi 9 Time: 10.00	ing Co am –	oncepts & Data Structures 01.00 pm Marks	: 70		
Q-1		Sele		8				
	(1)	data type is best suited to represent the logical values.						
		A	int	В	float			
		C	boolean	D	None of these			
	(2)		operator is used to sign	nify th	ne namespace.			
		A	Std	В	Scope resolution			
		C	logical	D	None of these			
	(3)	refers to the act of representing essential features without including the background details or explanations						
		A	Inheritance	В	Polymorphism			
		·C	Abstraction	D	None of these			
	(4)	Con	structors should					
		A	Public	В	Private			
		C	Protected	D	None of these			
	(5)	Αb	inary tree has at most	ch	nild.			
		Ä	One	В	Two			
		C	Three	D	None of these			
	(6)	Ar	ecord item that uniquely identifies	a reco	ord in a file is called a			
•		A	key	В	item			
		C	sequence	D	None of these			
	(7)	LIF	O stands for			•		
		A	Last In First Out	В	Last In Fast Out			
		C	Least In First Out	·D	Least In Fast Out			
	(8)	Lin	ked list is data structure.					

В

D

Linear

Both A & B

Non-linear

None of these

(P.TO)

	Q-2		Do as directed. (ATTEMPT ANY SEVEN)	14
		(1)	Define the following: (1) Abstraction (2) Objects	
		(2)	Differentiate between the following: Early binding and late binding.	
		(3)	List the features of Object Oriented Programming.	
		(4)	Differentiate between the following: Constructors and Destructors.	
		(5)	What is dynamic memory allocation? Explain its need.	
		(6)	Define top and bottom of a stack.	
		(7)	Differentiate between stack and queue data structure.	
		(8)	What do you mean by variable length record?	
		(9)	Define: B tree and B+ tree.	
				6
	Q-3	A	List and explain access control specifiers used in C++.	6
		В	Discuss cin and cout keywords in C++.	v
			OR	6
	•	В	What is a copy constructor? Explain different types of constructor.	U
				6
	Q-4	A	Write a brief note on friend function.	6
		В	Explain exceptional handling with example.	U
			OR	(
		В	Discuss the concept of unary operator overloading in detail	6
	1			
	Q-5	A	Write an algorithm for PUSH and POP operation of a Stack.	6
		В	Explain row-major and column major order used in array representation.	6
			OR	
•		B	Write an algorithm to insert and delete an element from Queue.	6
				_
	Q-6	5 A	What is binary tree? Also discuss their storage representation.	6
4		В	T 1 1 Commential File organization	6
		_	OR	
		В	Write a note on Inverted List.	6
			V———	
			A CALL AND	

