	Q. Code:187644												4	
Reg. No.														

B.E/B.TECH. DEGREE EXAMINATIONS, MAY 2024

Second Semester

CS18202- OBJECT ORIENTED PROGRAMMING

(Computer Science and Engineering)

(Regulation 2018 & 2018A)

TI	ME: 3 HOURS MAX. MAF	RKS:	100			
COUL			RBT LEVEL			
CO 1						
CO 2	Students will be able to examine the problem and infer Object Oriented Concepts practical problem solving.	s for	3			
CO 3	Students will be able to appraise generic data type for the data type indepen programming which relate it to Reusability.	dent	3			
CO 4	Students will be able to interpret and design the Exception Handling Techniques resolving run-time errors.	s for	3			
CO 5	Students will be able to practice file I/O for large data set		3			
	PART- A $(10 \times 2 = 20 \text{ Marks})$					
	(Answer all Questions)					
	(Alliswer all Questions)	CO	RBT			
1.	Assess the need of Static Member in C++.	1	LEVEL 2			
2.	What is the function parameter? Mention the difference between parameter and argument.	1	2			
3.	Interpret how you allocate and unallocated an array of things.	2	3			
4.	4. Give the operator in C++ which cannot be overloaded. 2					
5.	3. Recall the term inheritance.					
6.	Give the visibility of base class members in derived class.					
7.	Write a C++ program to find sum of three integer float number using template class.	4	3			
8.	Compare and contrast error and exception.	4	3			

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9.	Inscribe the default action	ons on file pointers while opening a file.	_	5	2	
10.	List down the C++ funct	tions to manipulate file pointers.		5	2	
		PART- B (5 x $14 = 70$ Marks)	Marks	CO	RBT LEVE	
11. (a) Infer the basic conce	epts of Object-Oriented Programming with an example.	(14)	1	2	
		(OR)				
(b)	, , , ,	program to declare a structure employee with member empname. Accept and display data for one employee variable.	(7)	1	2	
	· /	+ program to accept array of five elements, find and st number from an array.	(7)	1	2	
12. (declare a class addit	en constructor and destructor. Write a C++ program to cion with data members as x and y. Initialize value of x ctor. Calculate addition and display it using function	(14)	2	3	
	1 7	(OR)				
(d complex to represent complex numbers. operators when working on the object of this class.	(14)	2	3	
13. (a) Classify the various each.	types of Inheritance in C++ with suitable program for	(14)	3	3	
-		(OR)				
(b	, , , , ,	m. Build a C++ program to demonstrate pure virtual	(14)	3	3	
	function with the use	e of base and derived classes.				
14 ((a) F1 F4' 4		(1.1)	4	2	
14. (a) Explore Function tel	mplate and Class template with detailed example.	(14)	4	3	
0	L) A	(OR)	(1.1)	4	2	
(1	b) Appraise the various	s Exception handling mechanism in detail.	(14)	4	3	
15. ((a) Explain in brief or	n various functions required for random access file	(14)	5	3	
`	operations. Give an	<u>-</u>	. ,			
	-	(OR)				
(1	b) Compare the opening	ng a file with constructor function and opening a file	(14)	5	3	

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with open () function. Elaborate the name with suitable example.

PART- C (1 x 10 = 10 Marks)

(Q.No.16 is compulsory)

 \mathbf{CO} RBT Marks LEVEL 1

Elaborate the need of friend function. List down the merits and demerits of 16. using the friend function in C++.

(10)

5
