	POKHARA UNIVERSITY		
	Level: Bachelor Semester: Spring Programme: BE	Year : 2023 Full Marks: 100	
	Course: Object Oriented Programming in C++	Pass Marks: 45 Time : 3hrs.	
	Candidates are required to give their answers in their as practicable.	own words as far	
	The figures in the margin indicate full marks.		S.
	Attempt all the questions.		
3)	Explain non-linear behaviour of complexity. How from POP? Justify with points.	is OOP different	7
	OR		
	Define Responsibility Driven Design. Demonstrate CRC in OOP with an example.	the significance of	
M	What shortcomings of structure are solved by different types of constructors available in C++ with	classes? Explain their use.	8
	Does the friend function breach Data hiding? Justify. Write a program to swap the values of variables of two classes using friend function.		8
-	How is DMA better than SMA? Justify your answer and delete operators are used in DMA.	Explain how new	7
M	Define static member. Write a program to illustrat members and static member function.	e the use of static	7
1	How inheritance increases the reusability of codes? types of inheritance with suitable diagram and syntax	Explain different	8
X	What is diamond problem in inheritance? Explain can be solved with suitable programming example.	how this problem	7
John State of the	Define two ways of converting one user defined da user defined type. Write a program that convert ki using user define to user define data conversion. (1kg	logram into gram	8
	OR		
	WAP to find the sum of two 3×3 matrix by o operator +.	verloading binary	
1	What do you mean by virtual function? Write a prouse of virtual function to achieve runtime polymorph	gram to show the ism.	7

C.			
M	Why is generic programming beneficial? Explain template fun and class template with syntax.	ction	8
6.	Define Exception handling. Does C++ support multiple calllustrate with suitable programming example.	atch?	7
M	Write a program that stores object of student class (assume members are roll, name and university_ name) into a file and values from the file and display the data in console.		8
	ite short notes on: (Any two)		2×5
	STL		
	Use of this pointer		
	c) OOAD		
			-
			18
	*	`.	