Total	l No.	of Questions : 4] SEAT No. :
PC401		[Total No. of Pages : 1
	`	Computer Engineering) (Computer Science & Design Engg.)/ cial Intelligence & Data Science Engg.) (Computer Science) (Insem) OBJECT ORIENTED PROGRAMMING (2019 Pattern) (Semester-III) (210243)
		Hour] [Max. Marks : 30
Instr		ons to the candidates:
	1) 2)	Answer Q1 or Q2, Q3 or Q4.
Q 1)		Assume suitable data if necessary. Compare Procedure Oriented programming vs Object Oriented Programming. [4]
	b)	Explain C++ data type union and enumeration with example. [5]
	c)	Explain static data and static function with program. [6]
	,	OR
Q2)	a)	What is encapsulation? Why it is important in object-oriented
	1. \	programming? [4]
	b)	What is the purpose of constructor and destructor in object-oriented programming? How are they used in class? [5]
	c)	Write a class "Person" with attributes like name, age & address. Include appropriate constructor & member functions to set & display these attributes.
Q3)	a)	Explain friend function Write a program to demonstrate it in C++. [5]
	b)	Discuss the memory management using keywords 'new' and "delete".[5]
	c)	What is multi-level inheritance? Explain with an example, how it can be implemented in C++. OR [5]
Q4)	a)	Explain friend class. Write a program to demonstrate friend class in C++. [5]
	b)	Explain Function overloading and function overriding with example. [5]
	c)	Explain public, private and protected inheritance And give example of private Inheritance with explanation. [5]
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