

PRN No.	Total No. of Questions: 06
---------	----------------------------

QP Code:

JSPM's
Rajarshi Shahu College of Engineering, Tathawade, Pune- 411033
 (An autonomous institute affiliated to Savitribai Phule Pune University)

Examination: Mid Semester Examinations (MSE)
Academic Year: 2023-24

Department: Engineering Sciences and Humanities
Class: F. Y. B. Tech. (CS / IT / CSBS) Semester: II

Subject Code: CS1204 Subject Name and pattern: Object Oriented Programming (2023)

Duration: 1 Hour

Max. Marks: 20 Marks

Instructions to the Candidates

1. Solve Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.
2. Assume suitable and necessary data wherever required.
3. Neat diagram must be drawn wherever necessary.

Q. No.			Marks	BL	CO
1	a	Explain Programming Paradigms.	3	BL1	CO1
	b	Write a program on parameters passing by pointers to swap two values.	3	BL2	CO1
		OR			
2	a	Create a class to represent a dynamic array of integers. Implement member functions to dynamically allocate memory for the array using the new operator, initialize array elements, and deallocate memory using the delete operator.	3	BL1	CO1
	b	Explain the terms and demonstrate with suitable example Local Variable and Global variable within the scope.	3	BL2	CO1
3	a	Create a class called Date with data members day, month, and year. Implement a default constructor to set the date to 01-01-2020. Also, include a parameterized constructor to allow customization.	4	BL3	CO2
	b	Define and demonstrate this pointer with suitable example.	3	BL1	CO2
		OR			
4	a	Create a class called Student with private data members rollNumber, name, and grade. Define a friend class called School which has access to the private data members of Student. Implement member functions in School to display student details and update grade	4	BL3	CO2
	b	What is Access Specifier. Explain types of access specifiers supported by C++ with syntax and example.	3	BL1	CO2

5	a	Write a C++ program to implement a class called BankAccount that has private member variables for account number set the member by constructor. Derive class balance which includes member functions to deposit and withdraw money from the account.	4	BL3	CO3
	b	Define Inheritance and explain types of Inheritance with suitable diagrammatic representation.	3	BL3	CO3
		OR			
6	a	Demonstrate the application of virtual to resolve the ambiguity in Hybrid multipath inheritance.	4	BL3	CO3
	b	Write a note on Abstract class with example.	3	BL3	CO3

*****BEST of LUCK*****