Sarvajanik College of Engineering & Technology, Surat
Computer Engineering Department
Progressive Assessment Tests 2 Questions
B.E.(II)CO(SHIFT-1), Sem : 4
OBJECT ORIENTED PROGRAMMING WITH C++ [2140705]

1.	What is friend function? Create two classes ABC and DEF having member data a(int) and x(int) respectively. Create a function MAX that will find the largest value from both class member data.(use friend function)
2.	Write a program to exchange the private values of two classes.(use friend function and call by reference).
3.	What is constructor? Explain its types with constructor overloading Examples
4.	What is Operator Overloading? Create a class SPACE having three member data x(int),y(int),z(int).overload the unary '-'(Minus) operator for the class SPACE.
5.	Explain Memory management operators in detail with example.
6.	Explain manipulators and type casting in detail with example.
7.	Explain call by reference and return by reference in detail with example.
8.	Explain Inline Functions in detail with example.
9.	Explain Default Argument in detail with example.
10.	Explain classes for file stream operations in detail.

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Computer Engineering Department
B.E. II, Sem. IV, Shift-I
Subject Name: Operating System
Subject Code: 2140702

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Question Bank for PAT-2

1	Define Operating System with services it provide.
2	Explain Evolution of operating system.
3	Define Process and Process Control Block with two state state transition diagram.
4	Explain Five State Process Model . Also explain need of suspended state diagram.
5	Explain the following memory allocation Algorithms: (a) First-Fit (b) Best-Fit (c) Worst-Fit Given five memory partitions of 100k, 500k, 200k, 300k, 600k (in order), How would the First, Best and Worst-Fit algorithms places the processes of 212k, 417k, 112k and 426k (in order)? Which algorithm makes the most efficient use of memory? Count Utilization Rate for each algorithm.
6	Explain Fragmentation in Detail. Differentiate Internal and External Fragmentation.