


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Programming Techniques Program: B.Tech ECE Course Code: ECEG3072P		Semester : 5th Time : 03 hrs. Max. Marks: 100	
Instructions: Attempt all sections.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Write the basic concept of object oriented programming.	4	CO1
Q 2	Discuss input and output operators used in C++.	4	CO1
Q 3	Classify the different storage classes with their keywords.	4	CO1
Q 4	Explain constructor and destructors with their proper examples.	4	CO2
Q 5	List the benefits of using friend function in a program.	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	Compare object oriented and procedure oriented programming paradigms. Write names of three languages that belongs to OOP and Procedural oriented programming.	10	CO1
Q 7	Define a class Employee and declare salary and empid as its members variables. Access the public members of this class using objects of the class.	10	CO2
Q 8	Write a program in C++ to enter and print the elements of an array using for loop.	10	CO1
Q 9	Define inheritance and show how we solve ambiguity in multiple inheritance. OR Write a C++ program to implement array of objects.	10	CO2
SECTION-C (2Qx20M=40 Marks)			
Q 10	Explain compile time and run time polymorphism. Discuss the concept of function overriding also.	20	CO2
Q 11	Illustrate the exception handling mechanism using suitable example with C++ code.	20	CO3

	<p>OR</p> <p>Can we re-throw an exception using throw statement in C++. If yes specify with proper syntax and example with code.</p>		
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