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|  | **BALOCHISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY KHUZDAR** | | | |
|  | **DEPARTMENT:** | **Biomedical Engineering** | **EXAMINATION:** | **Final-Term, 2023** |
| **SUBJECT:** | **Object Oriented Programming** | **CODE:** | **CS-125** |
| **SEMESTER:** | **B.E (CS) 3rd** | **Max Marks:** | **50** |
|  |  | **Time Allowed:** | **03 Hour** |

**Instructions: Attempt all questions.**

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|  |  | **CLO No** | **Domain** | **PLO No** | **Marks** |
| **Q1** | **Define the following.**   1. Unary Operator 2. Increment and Decrement Operator 3. Scope Resolution Operator 4. Data Members and Member Functions 5. Compiler | **1** | **C1** | **1** | **[10]** |
| **Q 2.** | 1. **Explain** the concept of Polymorphism in Object Oriented Programming? 2. **Discuss** in detail the different types of Polymorphism in Object Oriented Programming. | **2** | **C2** | **1** | **[10]** |
| **Q 3.** | 1. **Describe** the basic concept of Inheritance and its types in object oriented programming with example. 2. Identify and assign the name of each following figure is belong to Multipath Inheritance, Hybrid Inheritance, Hierarchical Inheritance, Multiple Inheritance, Multi-level Inheritance, and Simple Inheritance. | **2** | **C2** | **1** | **[10]** |
| **Q.4** | 1. **Write** a simple program using if and else if statement that takes test score of Biomedical Engineering student as input and displays the grade according to the following criteria.   **Test score** **Grade**  >=90 A  80-89 B  70-79 C  60-69 D  Below 60 F  **Hint:** Use else-if Statement | **2** | **C5** | **2** | **[10]** |
| **Q.5** | 1. **Construct** a C++ program using constructor and destructor operator? 2. **Write** a program of single inheritance. | **2** | **C5** | **2** | **[10]** |

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