**Imam Mohammad Ibn Saud Islamic University**

**College of Computer and Information Sciences**

**Computer Science Department**

**Bachelor of Science in Computer Science**

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| **Course Title:** | *Computer Architecture* |
| **Course Code:** | CS228 |
| **Course Instructor:** | Dr. Mostafa Ibrahim |
| **Assignment:** | Cache Memory |
| **Semester:** | 2nd Semester, 2024-2025 |
| **Due Date:** | Saturday (2025-2-1( |
| **Marks:** | 5 |

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| --- | --- |
| **Student Name (in English):** |  |
| **Student ID:** |  |
| **Section No.:** |  |

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| **Official Use Only** | | | |
| **Question** | **CLOs** | **Student Marks** | **Question Marks** |
| A | 2.4 |  | 2 |
| B | 2.4 |  | 3 |
| **Total** | |  | **5** |

**Question 1:**

1. List and briefly explain the known pipeline hazard types. [2 Marks]
2. Briefly explain the methods to avoid or reduce the pipeline hazard impacts. [3 Marks]