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**MID TERM EXAMINATIONS – March 2025**

|  |             |                           |
|--|-------------|---------------------------|
| : B.Tech.                                | Semester    | : Winter Semester 2024-25 |
| : Computer Architecture and organization | Course Code | : CSE2003                 |
| : 03 March 2025, II Session              | Slot        | : A24+C21+F22             |
| : 1 ½ hours                              | Max. Marks  | : 50                      |

**Answer all the Questions**

| Question Description   | Marks |
|--|-------|
| Illustrate the computer instruction formats with a neat sketch. How do we evaluate the arithmetic statement $X = (A + B) * (C + D)$ using zero, one, two, or three address instructions. | 10    |
| Discuss the importance of different addressing modes in computer architecture with suitable example.   | 10    |
| Discuss the algorithms for performing division using restoring for the following values dividend=1111 and divisor=0011.  | 10    |
| Perform the multiplication operations using floating-point representation with IEEE standards for the given data $A=10.12$ and $b=5.234$ .   | 10    |
| Describe the organization of main memory and compare different types of main memory (SRAM vs. DRAM) based on their characteristics.  | 10    |

**ALL THE BEST**