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Computer Architecture and Organizations

Important 13mark questions

Unit I

1. Explain in detail the various components of computer system with neat diagram.
2. Elaborate the different types of addressing modes with a suitable example.

Unit II

1. Illustrate the division algorithm with an example.
2. Explain briefly about floating point addition and Subtraction algorithms.

Unit III

1. What is pipelining? Discuss about pipelined data path and control.
2. Why is branch prediction algorithms needed? Differentiate between the static and dynamic techniques.

Unit IV

1. Explain in detail about Flynn's classification.
2. Discuss Shared memory multiprocessor with a neat diagram.

Unit V

1. Discuss DMA controller with block diagram.
2. Explain the different mapping functions that can be applied on cache memories in detail.