Review – Part1

Know and be able to explain (apply) the definitions:

- Neumann Architecture
- MBR, MAR, PC
- Bit, IAS Memory Format
- Binary system (base, radix), representation of 32-bit integers
- Numbers (positive, negative), sign bit, range of negative (and positive) integers
- Division-remainder method, overflow, carry bit
- Representation of fractional and real numbers (exponential, mantissa - significand, etc)
- Positive (negative) under- and overflow
- IEEE Standard 754, Hexadecimal Notation
- ASCII, UNICODE