Madan Mohan Malaviya University of Technology, Gorakhpur

Electronics and Communication Engineering Department

DIGITAL ELECTRONICS AND COMPUTER ORGANIZATION (BEC-201)

TUTORIAL: - UNIT-III

Q.1. Draw Explain the basic block diagram of a digital computer system.
Q.2. Compare RISC and CISC processors.
Q.3. Explain the use of following registers of processors.
   a. Program Counter
   b. Accumulator
   c. Instruction register
   d. Stack pointer
   e. Scratch register
   f. Status information register
   g. Buffer registers
Q.4 Explain about Arithmetic and Logic Unit.
Q.5 Describe the Input-output subsystem organization and interfacing.
Q.6. What do you mean by addressing mode? List and explain different types of addressing modes with one example each.
Q.7. Explain in detail about fetch, decode, and execute cycle in computer organization.
Q.8. What are the different types of instruction formats? Explain them in detail.
Q.9. Differentiate Memory Reference and Register Reference Instructions.
Q.10. Differentiate Register Reference and Input/output Instructions.
Q.11. Draw and explain the block diagram of control logic.
Q.12. What do you mean by microoperation? Give and discuss it for fetch and execute cycle.
Q.13. Explain the three categories of computer instructions such as data transfer instructions, data manipulation instructions and program control instructions