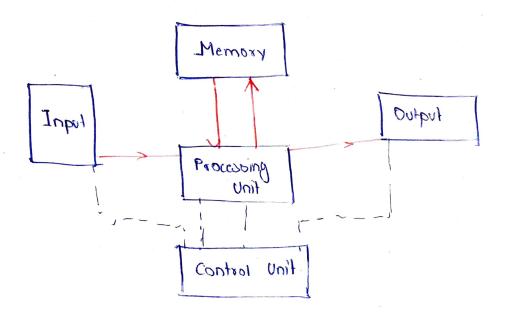
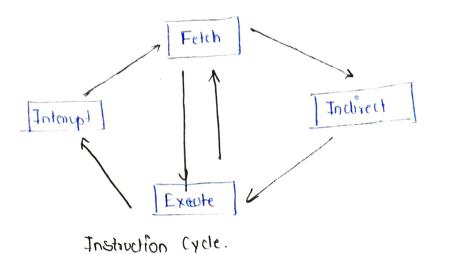
- core subject for University exam.
- · Grate / NET (7-8 marks) 15 questions
- 1. Digital Dooign M. Morris By Poarson. Books 2. Modern Digital Electronics, RP dain.
- # What is a computer? Computer is an electronic device that takes input, stores the data, processes it and provides us output,

The Block Diagram of a Computer:



- Do How is a calculator different from a computer?
 - A calculator works on the principle of circuit (electronic circuite) where as a computer works on the principle of instruction cycle.
 - A computer operates on these instructions.
 - => Fetch instruction
 - => Data Fetched
 - => St Executing Execute instruction
 - Storing Data in memery.
 Griving Outpot.



Topics to be Studied :- (throughout course)

I. Auber Number System?

--> Basics, Conversion, Representation.

I. Binary Codes; -> Classification, BCD, 8421, Gray Lodes. Weighted / Non-Weighted codes

Roolean Algebra: -> Basics, Logic Grates, SOP, POS, Universal Grates.

IV. Combinational Circuits: -> Booics, Adder, Converter, MUX, DeMUX, Encoder

Occoder.

I. Sequential Circuits: -> Basics, Latcher, Flip- Flops, Counters, Registers

BASICS:

Electrical engineering is a professional engineering discipline that generally deals with the istudy and application of electricity, electronics and electromagnetism [Higher Voltage]

-> Electronic engineering is a branch of electrical engineering where we work on law-voltage devices such as semiconduc - tors , transistor , ICS.

Analog System:

Any Signal that varies continuously
with lime . e.g. amplifier. Bar, watch,
Radio, etc.

Digital System:

Information is represented by a finite v
sequence of discrete values.

e.g. Digital watch, Calculator, the momeles,
etc.