

## Assignment On

Course Name : Computer Architecture

Course code : CSE-313

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## Answer to the question NO! 3(g)

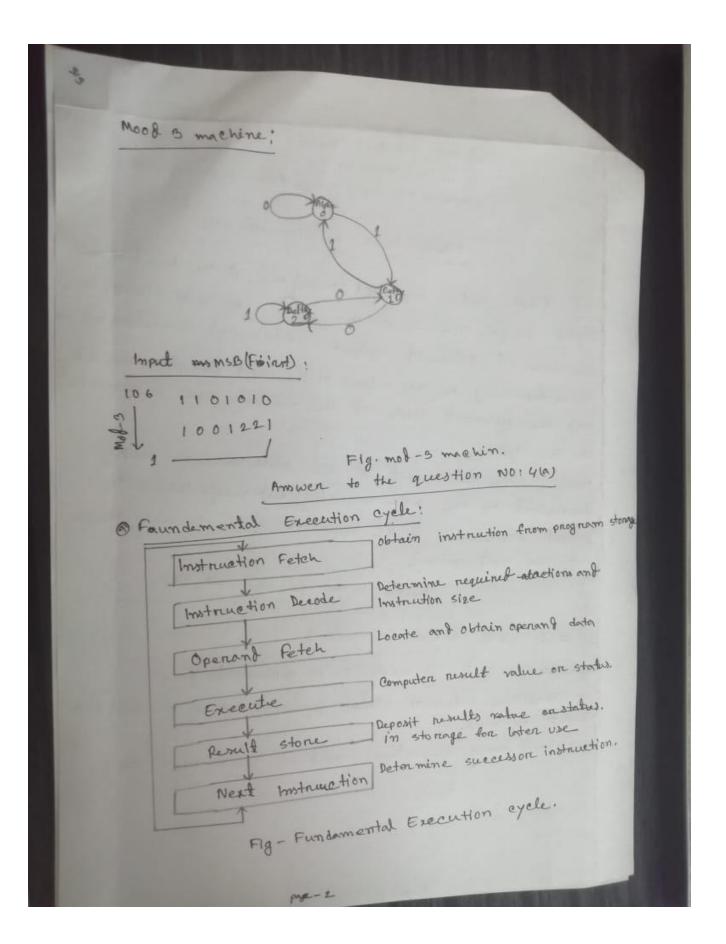
(a) Finite state machines (FSMS) are at the heart of most Digital Design. The basic Idea of a FSM is to stone a sequence of Different unique states and transition between them depending on the volues of the imput transition between and the current state of the machin. The FSM can be

at two types: Mone (where the output of the state machine purely dependent on the state vaniables) and mealy (where the dependent on the state vaniables) and mealy (where the output can depend on the europent state vaniable values and the input values).

Answer to the question NO: 316

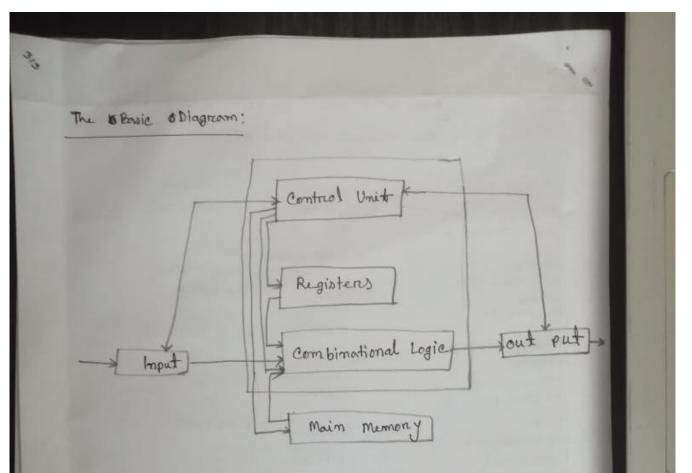
Fini state machine - moot-3
\* system state is explicit in nepresentation.
\* Transitions between states representation as annows with input on anes.
\* output may be either part of state on an anes.

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313 Answer to the question NO146) @ Levels of the memory Hierarcehy! Capacity Access Time staging cest X fer Unit Registers Faster CPU Registens 1005 Bytes LLIS ms Instr: operands prog/compiler\_ Cache los - 1005 k Bytes 1-8 bytes cache 21 mons \$ 1s/mByte Blocks cach entl Main Memory 8 - 128 bytes MEMORY MBytes 100 mb- 300 mb pages \$ 21/mByte 05 512-4k bytes Disk Disk los Goytes, 10ms Files (10,000,000 ms) user/operator \$ 0.001/mBytes Tape mbytes. FLargen Tope intinite Lowen Level See-min \$ 0.0014 | mByte. Fige: Levels of the Memony Hierone hy. Answer to the question NO: 10) Computer Architecture: Computer Anchitecture eur com be defined as a set of nules and methods to that describe the functionality.

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## Fig: computer Anchitecture

Ammuento the question NO: 116)

Moonels Law: Moonels law is the observation that the number of transistons in an intregnated einewit (1e) doubles about every to two years.