Section 6

Ques:- 2

Ans:- Digital sequential logic circuits are divide into synchronous and asynchronous types.

In synchronous sequential circuits the state of the device changes only at,

discrete times in respons to clock signal.

In asynchronous circuits the state of the respond to changing input.

Sequential circuits are those which have the notion of an of internal state.

This notion of internal state is state is necessary below in sequential. State circuits

the output of the internal state is generation

Both the present input as well as the past inputs. the internal state of a sequential circuit. is nothing but reflects of the past inputs. the circuits.

Now the internal state of a sequential circuit is represented by number of state.

A flip flop can only represent 2 possible states.

Therefore if we have N. flip flops,

we can represent a maximum of 2^N state.

Now the difference between synchronous and Asynchronous circuits is in how the circuits goes for one internal state to the next internal state.

Circuits change their state initiated with given input clock.