Q.1.   Answer the following short questions: (10x3=30)

a.   Design edge triggered RS Latch.

b.   Which memory is used as program memory? Explain .

c.   What type of Fuse used in CMOS technology?

d.   What is memory cell? Draw 2*8 array memory unit.

e.   Draw the basic block diagram of CPU.

f.   Draw 4 bit table of grey code.

g.   What are micro operands? Give example.

h.   What is meant by pipeline processing?

i.   How a binary error can be located? Give example.

j.   How double mode operation works in u-741 operational amplifier IC.

Q.2.   Answer the following questions.   (3x10=30)

1. Deign complete ALU structure of computer system. (10)

2. Design MOD 7 synchronous counter. Also draw its truth table, circuit and timing diagram. (10).

3. (a). Design 16 to 1 line multiplexer . (5)

   (b). Differentiate between the ideal and practical Operational amplifier parameters . (5)