Question 3:

a)

S->N (k1 = S)
S->A (k1 = S)
C->N (k2 = C)

k1 and k2 can both derive N therefore 1st NF

b)

R -> N, R -> E, O -> C, O -> R

No non trivial join dependencies are valid in this schema therefore 5NF

c)

There are no functional dependencies

d)

CS -> L
CS -> D
L -> C
CS -> C (Transitive)

BCNF as CS is a superkey, and all attributes it derives are prime