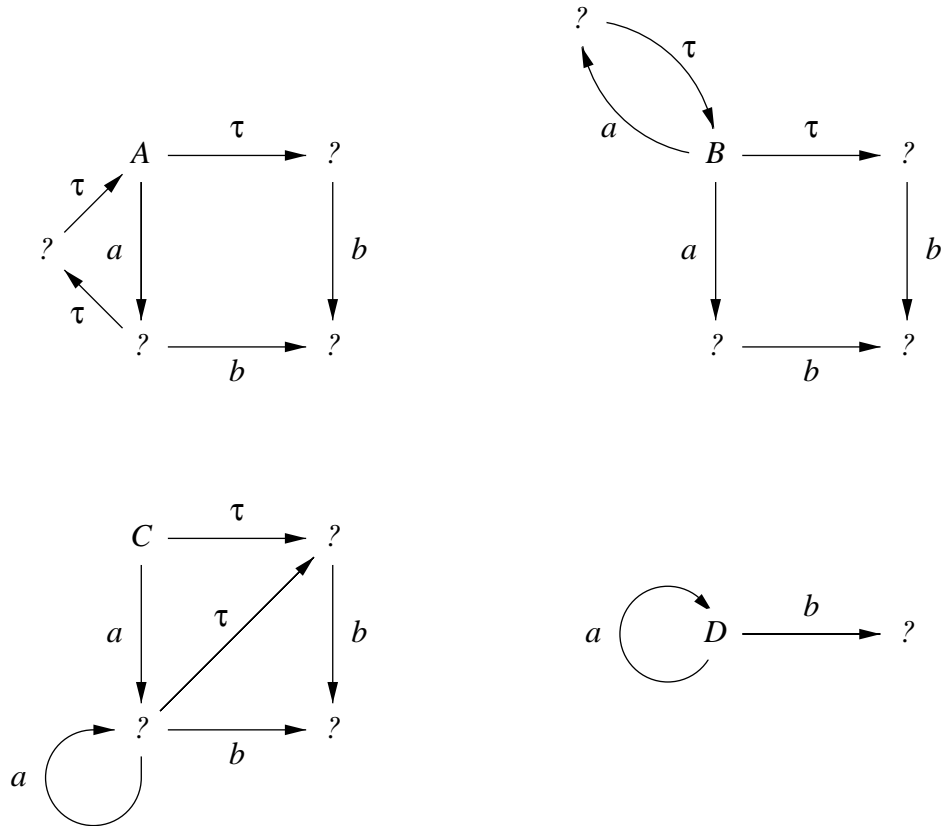


1993 Paper 9 Question 12

Concurrency

Define the notion of *observation equivalence* (\approx) for CCS agents. [5 marks]

Find definitions of CCS agents A , B , C and D with the following transition graphs.



[5 marks]

For each pair (P, Q) of these four agents A, B, C, D , determine whether or not P is observation equivalent to Q . (You may use the fact that \approx is an equivalence relation.) [10 marks]