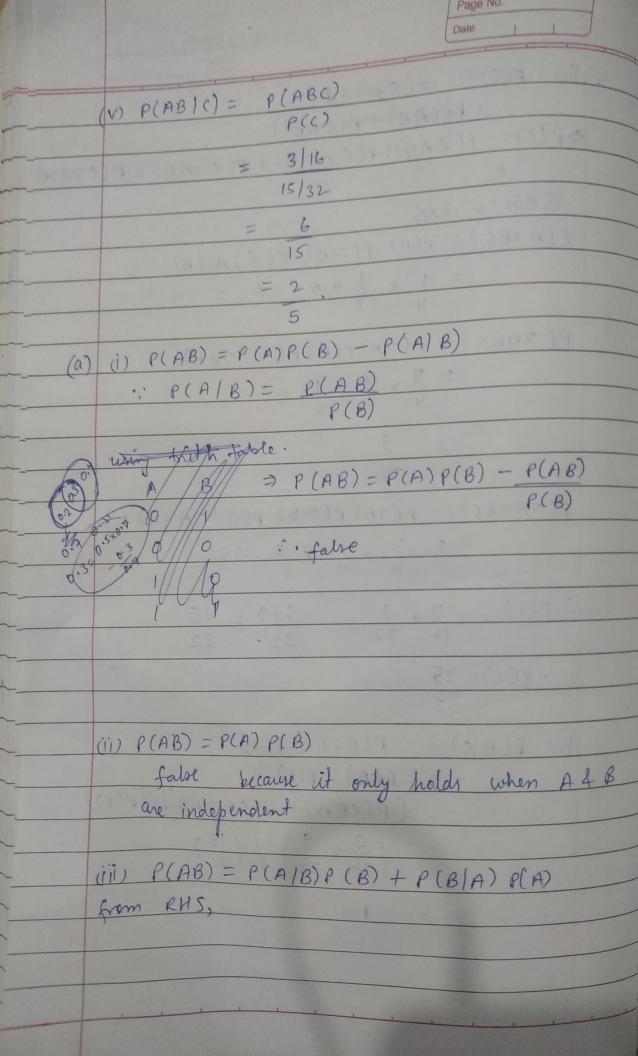
Name: - Sumit Kumar Yadar Page No. Roll No :- 18CS 30042 Date Saln: 2:-(b) P(A)= 0.5 $P(B|A) = 1 \Rightarrow P(B|A) = 1$ P(A) = 1P(B) = 0.75 P(BA) = 0.5 : P(B|7A) = P(B.7A) 7P(B7A) = P(B)-P(AB) = 0.75 - 0.5 = 0.25 : P(B | 7A) = 0.25 / 0.5 = 1. (C) (j) P(ABC) = P(A) . P(B) . P(C|AB) = $= \frac{1}{4} \times \frac{3}{4} \times 1$ (ii) P(AB) >: A & B are independent P(AB) = P(A). P(B) = 1 × 3

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(iii) P(c) = P(cn)+P
      = P(CAB) + P(CAB+)
>P(C) = P(CAB)+P(CA7B)+P(C7AB)+P(C7A7B)
.. P(ABC) = 3/16
P(A7BC) = P(A) .P(7B) .P(C|A7B)
           = 1 \times \frac{1}{4} \times 0 = 0
P(7ABC) = P(7A)P(B)P(C/7AB)
            = 3 x 3 x 1
P(7A7BC)= P(7A)P(7B) P(C/7A7B)
             = \frac{3}{4} \times \frac{1}{4} \times 0 = 0
P(c) = \frac{3+9}{6+9} = \frac{6+9}{32} = \frac{15}{32}
 : P(c) = 15
(iv) P(B(c) = P(Bc) / P(c)
             = P(B) | P(C)
= [P(CBA) + P(CB7A)] | P(C))
             = \left(\frac{3}{16} + \frac{9}{32}\right) \left(\frac{15}{32}\right)
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P(AIB)P(B)+P(BM) P(A)

= P(ANB) PLBS+ P(ANB) PLAS P(B) P(B)

= 2 P(AB) + LHS

: false.

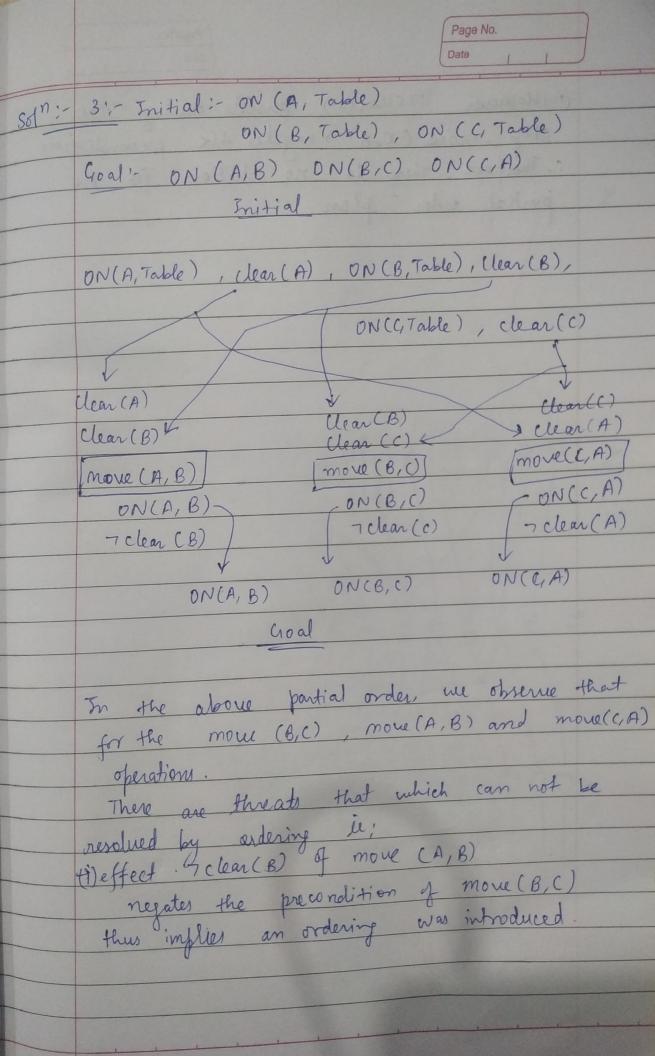
(V) P(A) = Z P(A | B=b) P(B=b)
6FB

true

(V) false

(VI) PCABC) = P(C/A) P(B/CA) P(A)

: True



Page No. Date (i) However 7 clear(c) persists during the step, move (c, A) & negates the precondition.
Therfore, there is no solution for the partial order plan. 37 roll, (240°, 3740, (3) 1076

