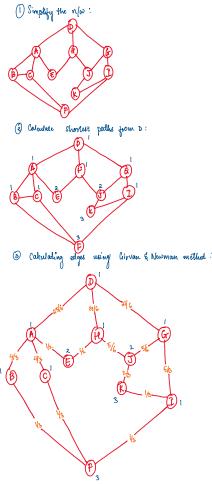
Assignment 2

Monday, January 23, 2023 2:45 PM



2.1 Possible Bond between b-c:

Weak Bond Reason: According to Triadic Closure Assumption, the bond is formed via distant connections which are all weak ties. Thus, they can only connect as Weak Bond.

- 2.2 Nodes satisfying Strong Bond Triadic Closures:
- 1. A-B(s), A-D(s), B-D(w)
- 2. B-C(s), B-A(s), A-C(w)
- 3. D-A(s), D-E(s), A-E(w)

Nodes not satidying Strong Bond Triadic Closures:

- 1. C-B(S), C-E(S), B-E(no bond)
- 2. E-D(S), E-C(S), D-C(no bond)

This categorization is due to the fact that Strong Bond Triadic Closure states that, if for 3 nodes (A,B and C); A has strong bond with B and a strong bond with C, eventually, B and C will form a Weak bond. Here, 3 triplets satisfy the condition and 2 triplets don't.

- 2.3 Nodes violating Strong Triadic Closure Property:
- 1. C-B(S), C-E(S) -> B-E(no bond)
- 2. E-D(S), E-C(S) -> D-C(no bond)

This categorization is due to the fact that Strong Bond Triadic Closure states that if for 3 nodes (A,B and C); A has strong bond with B and a strong bond with C, eventually, B and C will form a Weak bond. There should be presence of atleast a weak bond between B-E and D-C to avoid them breaking the rule.

2.4 Nodes violating Strong Triadic Closure Property: C-B(S), C-E(S) -> B-E(no bond)
This categorization is due to the fact that Strong Bond Triadic Closure states that if for 3 nodes (A,B and C); A has strong bond with B and a strong bond with C, eventually, B and C will form a Weak bond. There should be presence of atleast a weak bond between B-E to avoid them

