If we know the support of itemset {*a*, *b*} is 10, which of the following numbers are the possible supports of itemset {*a*, *c*}? Select all that apply. 1 point

- [ ] 9
- [x] 10
- [ ] 11

2. If we know the support of itemset {*a*} is 50 and the support of itemset {*a*, *b*, *c*} is 10, which of the following numbers are the possible supports of itemset {*a*, *b*}? Select all that apply. 1 point

- [ ] 30
- [ ] 100
- [ ] 5
- [x] 10
- [ ] 50

3. Considering the Apriori algorithm, assume we have obtained all size-2 (i.e., containing 2 items, e.g. {A, B}) frequent itemsets. They are {A, B}, {A, C}, {A, D}, {B, C}, {B, E}, and {C, E}. In the following size-3 itemsets, which of them should be considered, i.e., have potential to be size-3 frequent itemsets? Select all that apply. 1 point

- [x] {A, B, C}
- [x] {A, C, D}
- [ ] {A, B, D}
- [x] {B, C, E}

4. 1 point

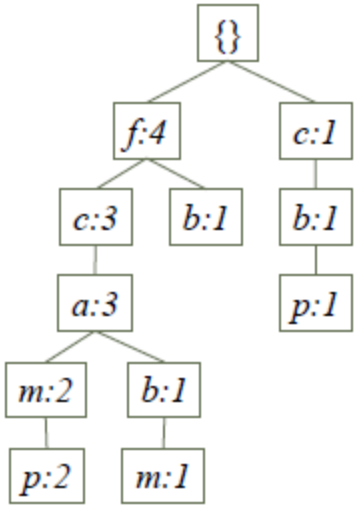

Figure 1: FP-Tree

Given the FP-tree as shown Figure 1, which of the following choices is in the *f*-conditional database? Select all that apply.

- [x] {*c*, *b*, *p*} : 1
- [x] {*b*} : 1
- [x] {*c*, *a*, *m*, *p*} : 2
- [x] {*c*, *a*, *b*, *m*} : 1

- [x] I, **BAL KRISHNA NYAUPANE**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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