

Mini-Assignment for Hempel's "The Logical Analysis of Psychology"

In section IV Hempel talks about the statement "Paul has a toothache" and gives a list of conditions (he lists a-e but says that this is only a partial list). I'm concerned with a) whether *Hempel thinks* these conditions are necessary, thinks they are sufficient, or thinks they are necessary and sufficient, and I'm concerned with b) whether these conditions actually are necessary, sufficient, or necessary and sufficient.

First, consider whether these really are necessary and/or sufficient conditions.

(To say that conditions are necessary for X is to say that the conditions must be satisfied if you are to have X. To say that conditions are sufficient for X is to say that if something satisfies those conditions, then you must have X. Thus, being an animal is necessary for being a human but it is not sufficient. Being a human is sufficient but not necessary for being an animal.)

1. Can you think of any case in which all of the listed conditions are satisfied but Paul doesn't have a toothache?
2. Can you think of any case in which Paul has a toothache but some of the listed conditions are not satisfied?
3. Can you think of any case in which Paul has a toothache but all of the conditions are not satisfied? (1 sentence for each question should be fine.)
4. Next, do you think *Hempel* thinks these conditions are necessary conditions for Paul having a toothache, sufficient conditions, or necessary and sufficient conditions? Give one sentence saying why you think this.