Short answer test II: Philosophy of Science

Upload this document with your answers included in Canvas under Assignment, like you did with assignment 1.

Name:

1. Define, explain and give an example of philosophical bias in science.
2. Present and explain the steps of
   a) Bacon's inductive method
   b) The hypothetical deductive method
   c) Abduction
3. What is falsification? How can science make progress through falsification, according to Popper?
4. Explain the main features of a scientific paradigm, the way Kuhn presents it.
5. What is an ad hoc hypothesis and what role does it play in normal science?
6. What is serendipity and how does it relate to scientific progress?
7. Explain the problem of underdetermination.
8. What is the empiricist ideal of science? Data or theory? Explain your answer.
9. What are raw data? Why would someone be critical of the idea of raw data?
10. Do you think that science could be objective? Why would someone think that science is not objective?