

Section A

(Answer the question in not more than 150 words. The question carries 10 marks.)

1. Different Bayesian measures of confirmation characterize the nature of irrelevant conjunction in various ways. Ratio measure (r) assert that the conjunction of an irrelevant statement ($H \& X$) is confirmed to the same degree as the original hypothesis (H). On the other hand, likelihood ratio measure (l) and difference (d) measures suggest that irrelevant conjunction is less confirmed than the original hypothesis. Which of these characterizations do you prefer?
 - A. Choose a characterization and formulate a criticism from the opposing camp. For example, if you select the d and l measure characterization, criticize the d and l measures from the perspective of the r measure. (75 words, 5 marks)
 - B. Provide a response to the possible criticism mentioned above from your side. For example, if you support d and l measures, respond to the criticism of the r measure from the perspective of the d and l measures. (75 words, 5 marks)

Section B

(Answer the questions in not more than 75 words. The question carries 7 marks.)

2. Briefly explain Hume's problem of induction.

Section C

(Answer the questions in not more than 50 words. Each question carries 4 marks)

3. Provide an example of circular reasoning/ argument in the context of inductive inference, such as detective investigations or scientific inference, commonsensical ampliative inference.
4. Provide an example of a confirmation relation that satisfies one of Carnap's four conditions discussed in his counterexamples. The conditions are: evidence conjunctive equivalence condition, evidence special consequence condition, conjunctive equivalence condition and special consequence condition. Your example can be either qualitative or quantitative.