

- 1) What is the philosophical problem referred as the 'Problem of Induction'? What is the solution to the 'problem of induction' proposed by Popper?
- 2) What is the role of theory in science? Can a theory be proved? Can it be conclusively disproved?
- 3) Compare and contrast the inductionist and falsificationist perspectives about formation of scientific theories.
- 4) What is the fundamental difference between the inductionism and falsificationism about their view of 'context of discovery' and 'context of justification'?
- 5) 'It is not possible to deductively prove the falsity of a theory based on the rejection of a statement about what will be observed from a single hypothesis alone.' Discuss.