



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Information communication and Technology
First Year – Semester II Examination – November/ December 2016**

IDC 1201- PHILOSOPHY OF SCIENCE

Time: Two (02) hours

Answer all four (4) questions.

1. "Philosophy is the study of general and fundamental problems of human life and nature."
Considering this statement, illustrate your views on following:
 - a) The need of philosophy and its contribution to day today life.
 - b) Can fundamental philosophical questions be answered by science?

(10 marks each)

2. "Empirical knowledge is grounded on how we perceive the world through our senses."
Comment on the following with reference to this standpoint.
 - a) Necessary and sufficient conditions of empirical knowledge.
 - b) Contribution of ethical and aesthetic judgments in human behavior.
 - c) Metaphysics makes human life meaningful.
 - d) Empirical world is not the real world.

(05 marks each)

3. Briefly describe the followings;
 - a) Distinguish the differences between deductive and inductive reasoning.
 - b) Examine the importance of probability in science.

(10 marks each)

4. a) "Science is the knowledge of a fact or phenomenon acquired through scientific Method." Briefly explain this statement with suitable examples.

(08 Marks)

- b) State and comment on the following titles.

- i) The steps followed in scientific investigations.
- ii) Scientific knowledge can be disproven in light of further evidence.

(06 Marks each)

END