

**Bago University**  
**Department of Philosophy**  
**Second Semester Examination, September 2019**

Fourth Year (B.A.)  
(Philosophy Specialization)

Phil- 4109  
Philosophy of Science II  
Time Allowed (3) Hours

Answer Five questions

1. Choose correct words, fill in the blanks and rewrite the followings.

- (a) The ----- rules contain words used in our everyday language observational concepts.  
( semantic, logical, mathematical )
- (b) The method of differences, sometime called "the ----- method of difference" is widely used in science.  
( experimental, tentative, speculative )
- (c) The most important part of the scientific ----- is testing the validity of the fact obtained.  
( observation, investigation, method )
- (d) According to Cohen and Nagel, ----- has many senses.( induction, deduction, observation )
- (e) According to -----, the study of the scientific procedure is made up of the study of scientific practice.  
( Locke, Kant, Wisdom )
- (f) The causality concept is ----- one. ( an absolute, a relative, a permanent )
- (g) Natural knowledge is formulated in -----.  
( arguments, reasoning, propositions )
- (h) An empirical analysis will have the ----- of a general law. ( character, nature, temper )

2. What conditions are exceedingly important for accurate observation in scientific investigations? State and explain briefly.

3. Evaluate the principal rules of the method of Descartes.

4. Explain the logical structure of Physical theories.

5. How do you understand by the concept of space? Discuss.

6. State and explain Iriving M. Copi's view on Hypothesis.

7. Write short note on anyone of them.

- (a) The development of scientific theories  
(b) Description and explanation  
(c) Two aspects of Science

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