



- Notes :
1. Attempt **eight** questions in all including Question No.1 which is compulsory.
  2. All questions carry equal marks.
  3. Indicate appropriate question number while answering.

1. Choose the correct alternative from the options given under each question.

**10**

- i) The formal conditions of a good hypothesis are -----.  
a) Non- contradiction                      b) Definite and clear  
c) Verifiable                                      d) All of these
- ii) The validity of induction depends upon -----.  
a) Uniformity of nature                      b) Causation  
c) Both    d) None of these
- iii) The use of inductive process presupposes -----.  
a) Formation of a hypothesis              b) Controlled observation  
c) Classification                                d) Generalization
- iv) A scientific investigation looks for -----.  
a) Explanation                                  b) Classification  
c) Cause – effect relation                      d) None of these
- v) The origin of hypothesis can be explained as -----.  
a) Simple enumeration                      b) Analogy  
c) Both a and b                                  d) None of these
- vi) Relation between cause and effect is -----.  
a) One sided                                      b) Two sided  
c) Three sided                                      d) None of these
- vii) When common man wants to eliminate something undesirable he consider ----- condition as the cause.  
a) Necessary                                      b) Sufficient  
c) Both 'a' and 'b'                                d) None of these
- viii) Hypothesis is a ----- solution to the problem.  
a) Permanent                                    b) Tentative  
c) Confirm                                        d) None of these
- ix) ----- Hypothesis is a guideline for new investigation.  
a) Ad-Hoc                                        b) Working  
c) Both 'a' and 'b'                                d) None of these

x) Generalization established by simple enumeration is supported by ----- evidence.

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|---------------------|------------------|
| a) Direct           | b) Indirect      |
| c) Both 'a' and 'b' | d) None of these |

2. Discuss the material grounds of induction.
3. Explain various factors which play important role in origin of hypothesis.
4. State and illustrate with example the method of difference.
5. Discuss the method of concomitant variation.
6. Define a hypothesis what are the condition of sound hypothesis.
7. Distinguish between perception and observation – Explain the fallacies of observation.
8. What is analogy? Discuss the condition of sound analogy.
9. Define law of nature. Explain the various characteristics of laws of nature.
10. Explain induction by simple enumeration.
11. Write short notes on **any two**.
  - i) Types of laws
  - ii) Ad-hoc hypothesis
  - iii) Scientific induction.
12. What is cause? Explain the common man's notion of cause and scientific notion of cause.

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