

**National Institute of Open Schooling**  
**Senior Secondary**  
**Lesson 02 – How Psychologists Study?**  
**Worksheet-02**

- 1) The scientific research of psychology is aimed at fulfilling four goals – description, explanation, prediction and control. Why are these goals important? Explain using an example.
- 2) Psychological research is generally theory focused (basic research) or application focused (applied research). Compare the differences between basic and applied research.
- 3) Experimental methods are generally preferred in research over other methods. Why? Also Describe the steps involved in an experiment through an example.
- 4) Behavior cannot always be studied in laboratory settings. Describe at least five methods that can be used in field settings.
- 5) Data collection is an important part of research. Enlist and explain some basic tools that are used in psychological studies to collect data on different attributes.
- 6) Research procedures can be very inhumane sometimes. How is the fair treatment of participants assured in research studies? Explain.
- 7) Statistics is very important in the analysis of research data. Describe the functions of statistics in psychology.
- 8) Mean is one of the important measures of central tendency. Why? Support your answer with suitable reasons.
- 9) A survey was conducted regarding the number of plants every house has in a colony of 30 houses and the following data was collected.  
4, 15, 6, 4, 2, 20, 6, 6, 4, 13, 17, 12, 8, 8, 5, 11, 9, 12, 15, 20, 12, 4, 6, 8, 8, 7, 20, 18, 11, 2
  - a. Prepare a frequency distribution table for the given data.
  - b. Calculate mean for the given data.
  - c. Find out the median and mode for the given data.
- 10) “When scores in one variable change in the same direction as those in the other or in the inverse direction — correlation (relationship) is said to exist”. Discuss the given statement and explain correlation coefficient.