

Environmental Science

LABORATORY MANUAL

FOR

Senior Secondary Course

Course Coordinator

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2.	Field Study	
	Exercise - 1	5
	Study of a simple ecosystem (Suggested habitats: pond, river, estuarine, grassland, forest and desert) and description of the biotic and abiotic components of the ecosystem.	
	Exercise - 2	8
	Study of effects of human interaction with natural environment.	
	Exercise - 3	11
	Survey of vegetation, birds, insects and other animals in an area.	
	Exercise - 4	15
	Choose five common species of Trees / plants from your NEIGHBORHOOD and list their common names. Describe each plant in terms of its height and leaves.	
	Exercise - 5	20
	Describe the environmental problem of your locality and suggest a remedy.	
	Exercise - 6	23
	Identifying the sources of pollution in water obtained from different sources.	
	Exercise - 7	25
	To segregate domestic waste into bio-degradable and non-biodegradable components.	
3.	Lab Exercise	
	Exercise - 8	28
	To study the quality of a sample of water collected or provided.	
	Exercise - 9	34
	To determine Texture of various soil samples.	

Exercise - 10 38

To estimate the amount dust (particulate matter) deposition on the leaves of roadside plants.

Exercise - 11 42

To Study the effect of light intensity on the growth of plants.

4. Creative Exercise

Exercise - 12 45

To set up an aquarium.

Exercise - 13 52

To study the biodiversity of birds and insects in your locality.

Exercise - 14 56

To prepare a list of plants and animals which are used for making meals at home on any one day and to comment on the habit and habitat of each.

Exercise - 15 59

To make a herbarium sheet.

Exercise - 16 62

To describe : a) climate of an urban area; b) yearly variation in suspended particulate matter in the same area.

Exercise - 17 66

To Make an audit of the electrical energy consumption by various household appliances.

Appendix I – Curriculum of practical