

Edutips

SUBJECT: ENVIRONMENTAL SCIENCE (ENVSC)

COURSE CODE: PRACTICAL

FULL MARKS: 30 CONTACT HOURS: 40

Evaluation Scheme	Marks
One experiment from Group A	7
One experiment from Group B	7
Spotting (Total three) from Group C. One from each set.	(3X2)=6
Practical Record Book +Viva Voce	(3+2)=5
One Investigatory field study from Group D + viva voce on field study	(3+2)=5

A. List of experiments:

- 1. Determination of LC50 and LD50 with data provided.
- 2. Determination of Water Holding Capacity of soil sample provided (at least two samples).
- 3. Determination of soil moisture content.
- 4. Determination of soil pH of at least soil sample.

B. List of experiments:

- 5. Determination of Dust fall rate.
- 6. Estimation of Noise level (dB(A).
- 7. Studies on goodness of fit for regression model with given data set on any environmental issues.
- 8. Simple staining using curd.





C. Study and observe the following (Spotting):

(Set-I): Identification of pest in agriculture (photographs/ museum specimen) and comment on their economic importance: Leptocorisa sp., Scirpophaga incertulus, Gryllinae sp., Amphipyra pyramidoides.

(Set-II): Identification of Microorganisms in environmental sample (Permanent slide / photograph) and comment on their economic importance: Escherichia col, Bacillus sp, Staphylococcus aureus, Plasmodium sp, Aspergillus sp

(Set-III): Identification of bio-indicators (Photograph/ museum specimen/permanent slides):

Microbes: Escherichia coli, Lichens

Plants: Mosses, Water hyacinth

Animals: Dragonfly larva, Earthworm

D. Field study

- 1. Preparation of an Environmental Management Plan on the basis of given scenario.
- 2. Review on local environmental issues and making design of action plan.
- 3. Review on social responsibility of environmental management and report submission.
- Report on global/local environmental pollution issues.
- 5. To segregate domestic waste into bio-degradable and non-biodegradable components.
- 6. To make an audit of the electrical energy consumption by various household appliances.

