

THIRD YEAR T. D.C.SCIENCE, 2018-19

ENVIRONMENTAL SCIENCES

PRACTICALS

Duration: 5 Hrs.

M.M.:75

	Regular	Ex- Students
1. Major Exercise	15	25
2. Major Exercise	15	15
3. Minor Exercise	10	08
4. Spots	20	20
5. Viva – Voce	10	10
6. Record	05	--
Total :	75	75

THIRD YEAR T. D.C.SCIENCE, 2018-19

ENVIRONMENTAL SCIENCES

PRACTICALS

Duration : 5 Hrs.

M.M.:75

1. Study of ambient air quality with respect to :
 - a) SPM
 - b) SO₂
 - c) NO₂
 - d) O₃
2. Study of water quality with respect to :
 - a) BOD
 - b) COD
 - c) Colour
 - d) pH
 - e) Dissolved oxygen
 - f) Total hardness
 - g) Alkalinity
 - h) Nitrates
 - i) Phosphates
3. Study of soil characteristics with particular reference to :
 - a) Porosity
 - b) Bulk density
 - c) Air content
 - d) Water holding capacity
 - e) pH

- f) Organic carbon
 - g) Total nitrogen
 - h) Sulphate-sulphur
 - i) Available phosphorus
 - j) Calcium
 - k) Metals
4. Calculation of Lc 50
 5. Study of plankton diversity in lake waters and calculation of similarity index.
 6. Examination of prepared histopathological slides to describe the toxicological effects of various environmental agents.
 7. To study the effect of certain toxicants on the chromosomes of *Tradescantia* / Onion.
 8. Field excursion to a polluted site, Forest and Wild life Sanctuary, National Park and submission of report.
 9. Study of external and internal adaptation and characteristics of important hydrophytes and xerophytes.

THIRD YEAR T. D.C.SCIENCE, 2018-19

ENVIRONMENTAL SCIENCES

BOOKS RECOMMENDED:

- 1 P.D.Sharma : Environmental Toxicology
- 2 K.C.Agarwal: Environmental Pollution - Causes Effects and Control, Nidhi Publishers, Bikaner.
- 3 P.D.Sharma: Ecology and Environment, Rastogi Publications, Meerut.
- 4 F.Ranade (1984): Ecology of Natural Resources, John Wiley and Sons Singapore.

PRACTICAL:

- 5 J. Pandey and M.S.Sharma: Environmental Science: Practical and Field Manual, Yash Publications, Bikaner.