

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

ENVIRONMENTAL SCIENCES

PAPER-II

POLLUTION ECOLOGY

Duration: 3 Hrs.

M.M.: 50

UNIT-I

Pollution – definition, types.

Air pollution – Sources, gaseous pollutants (SO₂, NO₂, CO, O₃, HF) and particulates; Acid rain, Fly ash, Aerosols, Green House Effect; Effects and control of air pollution; Air quality standards.

UNIT-II

Air Pollution and Meteorology: Principles of air monitoring, Pollution indicators and Biomonitoring. Environmental problems of Rajasthan.

UNIT-III

Water pollution – kinds and sources of water pollutants, municipal water pollution, municipal sewers and sewage; Industrial and commercial water pollution. Safe drinking water; Water quality standards.

UNIT-IV

Land Pollution – Effects of agrochemicals – herbicides, pesticides and fertilizers; Mining and smelting. Radioactive pollution – Radiation and their types – non- ionizing and ionizing radiations; sources in environment, effects on man, animals and plants; Prevention.

UNIT-V

Noise pollution – sources and effects.

Thermal pollution – causes and effects.

Marine spillage – sources and hazards.