

Part A - Environmental General Knowledge

This Section Will Contain Questions on National/International events related to environment and -

common understanding of environmental processes, NGT Act, Pollution Indices.

- Water/Waste Water/Industrial Waste Water Engineering

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Unit processes/Operations related to water and waste water treatment, namely Equalization Coagulation; Flocculation; Settling; filtration; Disinfection; Aeration; Adsorption etc.

Physical, chemical and biological characteristics of water and Sewage; Activated sludge process and its modifications; treatment ponds and aerated lagoons; Trickling filters; Rotating biological contactors; Sequencing Batch reactor and Membrane Batch Reactor.

Anaerobic digestion; Anaerobic filter and UASB, Nitrification & De- nitrification.

Characteristics and treatment of waste from Textile, Tannery, Dairy, Distillery, Cement Industry

- Air and Noise Pollution

Sources of air pollution; Properties of air pollutants; Meteorological factors influencing dispersion of air pollutants; Gaussian plume model for dispersion of air pollutants and its applications, Effects on human health. Control technology for particulate and gaseous pollutants from industries. Air pollution due to Automobiles and emission control;

Basic of noise pollution, Measurement and management of noise. Permissible noise levels in different zones, Effects of noise on human beings, Ambient Air Quality standards & Air Quality Index.

- Environmental Impact Assessment/ Environmental Legislations in India

Basic concept of Environmental Impact Assessment, Environmental Impact Statement and Environment Management Plan; Prediction and assessment of impacts on air, water, biota, noise, cultural and socioeconomic environment; Rapid and comprehensive Environmental Impact Assessment.

Environment (Protection) Act 1986, its amendments and various rules /notification made therein. Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981.

Municipal Solid, Biomedical, e-waste, plastic waste and Hazardous solid Waste

Problems associated with solid Waste viz; municipal, biomedical, hazardous, e-waste, plastic waste etc., its generation; classification; characterization; analysis; Onsite Collection Handling, storage Transport and Processing of solid waste; Recovery of Resources, Conversion Products and Energy generation from solid waste. Hazardous waste definition; Risk associated with hazardous waste & its Assessment; Waste Minimization; Priorities in hazardous waste management; hazardous waste treatment.

PART-B

- General Knowledge (with special reference to history, art, culture, traditions, literature, heritage and geography of Rajasthan, Mathematics, reasoning current affairs)

Examination Scheme:- There will be one paper consisting of two parts having multiple choice type questions. There will be total 150 numbers of questions of 3 marks each. The question paper will be only in English.

Junior Scientific Officer:

Paper-Subject	No. of Question	Time	Total Marks
PART-A : Environmental Science	120	3 Hours	450
PART-B : General Knowledge	030		
Note:-(1) Each question will carry 3 marks.			
(2) One mark will be deducted for each incorrect answer			