

SYLLABUS

CH. DEVI LAL UNIVERSITY, SIRSA

ENVIRONMENTAL POLLUTION

B.A./B.Sc./B.Com./BBA & BCA

PAPER-II

Semester -III & IV

Time : 3 Hours

Max. Marks : 80

Note : The question paper will contain section A, B and C.

Section A (16 Marks)

It will consist of one question having eight parts of two marks each. Candidates will be required to attempt all the parts. Answer to any should not exceed half page.

Section B (40 Marks)

It will consist of eight questions, two from each Unit. Candidates will be required to attempt five question in all selecting at least one from each Unit. Each question carries eight marks. Answer to any of the question should not exceed three pages.

Section C (24 Marks)

It will consist of four questions, one from each Unit. Candidate will be required to attempt two questions, each question carrying twelve marks. Answer to any question should not exceed four pages.

UNIT-I

Water Pollution : Natural and anthropogenic sources of water pollution and their effects marine pollution. Thermal pollution. Eutrophication. Ground water pollution.

UNIT-II

Air Pollution : Sources, Classification and properties of air pollutions (Particular matter Inorganse gaseous pollutants. Organic gaseous pollutants). Smog Acid rain, Ozone layer depletion. Green house effects, Global waring. Effects of air pollution on Human health

UNIT-III

Soil Pollution : Soil pollution from the use of agrochemicals viz. Fertilizers and Perasides, Heavy metals, Industrial effluents and Detrimental effects of soil pollutant, Remedial measures for Soil pollution. Types and sources of Solid waste, Electronic waste, Bio-medical waste.

UNIT-IV

Radioactive and Noise Pollution : Definition, Sources of radioactive pollution, Radioactivity effects of radioactive pollution, Sound pressure level, Frequency, noise monitoring and sound level meter, Sources and effects of noise pollution, Effects of noise pollution on human bealth.

SYLLABUS

FUNDAMENTALS OF ENVIRONMENTAL STUDIES (Semester-I or II)

Times : 3 hr.

Max. Marks : 80

Note : The question paper will contain section A, B and C.

Section A (16 Marks) : It will consist of one question having eight parts of two marks each. Candidates will be required to attempt all the parts. Answer to any part should not exceed half page.

Section B (40 Marks) : It will consist of eight questions, two from each Unit. Candidates will be required to attempt five questions in all selecting at least one from each Unit. Each question carries eight marks. Answer to any of the question should not exceed three pages.

Section C (24 Marks) : It will consist of four questions, one from each Unit. Candidate will be required to attempt two questions, each question carrying twelve marks. Answer to any question should not exceed four pages.

UNIT-I

Definition, Principles and Significance of Environment Studies, General introduction about Abiotic and Biotic spheres of the Environment, Atmosphere, Hydrosphere, Lithosphere and Biosphere, Need for Environmental awareness, **Sustainable development** : Definition, concept and tenets of sustainability : Ecology, Environment and Society.

UNIT-II

Natural Resources-I : Energy resources: Non-renewable energy resources: Fossil fuel and their reserves, impacts of their uses. Renewable energy resources: Scope and advantages, solar energy, wind energy, hydroelectric energy, Growing energy needs, Non conventional energy resources.

UNIT-III

Natural Resources-II : Forest resources: Types of forests in India, Use and over-exploitation, deforestation: causes and Consequences, Afforestation programme, Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems, Rainwater harvesting.

UNIT-IV

Drug Abuse : Concept of Health : Physical Health, Mental Health, Factors affecting Mental and Physical Health, Management of positive mental health; **Drugs and their effects:** What are drugs, useful and harmful drugs, stimulant and depressant drugs, use and abuse of drugs, concept of drug de-addiction. **Legal Position on drugs:** Laws related to drugs i.e., NDPS etc., Concept of Narco-terrorism, role and responsibilities of legal service authorities, Awareness programmes on drugs; Impacts of drugs/Alcohol/Smoking or Longevity.

SYLLABUS

CH. DEVI LAL UNIVERSITY, SIRSA ENVIRONMENTAL CONSERVATION AND SOCIETY

B.A./B.Sc./B.Com./BBA & BCA [IIIrd Year]

PAPER-III

Semester -V & VI

Time : 3 Hours

Max. Marks : 80

Note : The question paper will contain section A, B and C

Section A (16 Marks) : It will consist of one question having eight parts of two marks each. Candidates will be required to attempt all the parts. Answer to any part should not exceed half page.

Section B (40 Marks) : It will consist of eight questions, two from each Unit. Candidates will be required to attempt five question in all selecting at least one from each Unit. Each question carries eight marks. Answer to any of the question should not exceed three pages.

Section C (24 Marks) : It will consist of four questions, one from each Unit. Candidate will be required to attempt two questions, each question carrying twelve marks. Answer to any question should not exceed four pages.

UNIT-I

National Protection Laws : India's Ancient Traditions for Protection of Environment, Constitutional Provisions for Protection of Environmental legislation in India, Environment Protection Act, 1986, National Green Tribunal Act 2010, Green Bench, Child labour Act.

UNIT-II

Biodiversity : Basic concepts, importance and conservation needs, IUCN red list categories Biodiversity hotspots, National parks, Biosphere reserves. Wildlife sanctuaries, India as a mega diversity nation. Efforts to conserve biodiversity, government and non-government organizations.

UNIT-III

Natural Disaster Management : Causes, effects and control measures of measures of natural disasters, disaster preparedness prevention and mitigation preparation plan, community based planning. NDRF, Role of mass media and society in disaster management, Post disaster recovery measures : Rehabilitation, planning and construction, long term counter disaster planning.

UNIT-IV

Society and Environment : Demography, Population explosion and effects on Environment, Family Welfare Programmes, Role of individual, Self help groups, Role of NGO's Social movements, Chipko, Appiko, Save Silent Valley, Narmada Bachao Andolan, Eco-feminism, Environmental ethics (Ecocentric and Anthropocentric worldview), Governmental Actions, Swachh Bharat Abhiyan, National mission for Cleaning Ganga (NMCG).