EVS Syllabus of Maharshi **Dayanand University**

FIRST SEMESTER **ENVIRONMENTAL STUDIES** (QUALIFYING SUBJECT) PAPER CODE:BA1009-I

Max Marks: 80 Time: 3Hrs Assignment: 20

Note: - The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

Unit I

The Multidisciplinary nature of environmental studies. Definition, scope and importance. Need for Public awareness

Unit II **Natural Resources**

Renewable and non-renewable resources:

Natural resources and associated problems: Forest resources: Use and over-exploitation: deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.

Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams benefits & problems, Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

Food resources: World food problems, changes, caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.

Case studies. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of and individual in conservation of natural resources. Equitable use of resources for sustainable life styles.

Unit III

Ecosystems
Concept of an ecosystem.
Structure and function of an ecosystem.
Producers, consumers and decomposers.
Energy flow in the ecosystem.
☐ Ecological succession.
☐ Food chains, food webs and ecological pyramids,
☐ Introduction, types, characteristic features, structure and function of the following ecosystem :
a. Forest ecosystem.
b. Grassland ecosystem.
c. Desert ecosystem.
d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).
Unit IV
Biodiversity and Its Conservation
☐ Introduction - Definition: Genetic, species and ecosystem diversity.
☐ Biogeographically classification of India.
☐ Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
☐ Biodiversity at global, National and local levels.

☐ India as a mega-diversity nation.	
☐ Hot-spots of biodiversity.	
☐ Threats to biodiversity: habitat loss, poaching of wild	llife, man-wildlife conflicts.
☐ Endangered and endemic species of India.	Paradional Company (1970) - 1970 - 19
☐ Conservation of biodiversity: In-situ and ex-situ cons	servation of biodiversity, (8 lectures)
= conservation of crossiversity in site and on site con-	various of orotal various, (o rectained)
Unit V	<i>I</i>
Environmental	Pollution
Definition, causes, effects and control measures of:	
(a) Air pollution	
(b) Water pollution	
(c) Soil pollution	
(d) Marine pollution	
(e) Noise pollution	
(f) Thermal pollution	
(g) Nuclear hazards	
Solid waster management: Causes, effects and control r	neasures of urban and industrial wastes.
Role of an individual in prevention of pollution.	
Pollution case studies Disaster management: floods, ear	thquake, cyclone and landslides.
Unit V	
Social Issues and the	e Environment
☐ From unsustainable to sustainable development.	
☐ Urban problems related to energy.	
☐ Water conservation, rain water harvesting, watershed	I management.
☐ Resettlement and rehabilitation of people: its problem	
☐ Environmental ethics: Issues and possible solution	
ozone layer depletion, nuclear accidents and holocaust,	
☐ Wasteland reclamation.	
☐ Consumerism and waste products.	
☐ Environment Protection Act.	
☐ Air (Prevention and Control of Pollution) Act.	
☐ Water (Prevention and control of Pollution) Act.	
☐ Wildlife Protection Act.	
☐ Forest conservation Act.	
☐ Issues involved in enforcement of environmental leg	islation
☐ Public awareness.	
Unit V	П
Human population and	the Environment
Population growth, variation among nations. Popula	
Environment and human	
health. Human Rights. Value Education.	
– HIV/AIDS.	
- Woman and Child Welfare.	
Role of Information Technology in Environment and he	aman health.
Case Studies.	

Unit VIII Field Work

- Visit to a local area to document environmental assets river/forest/grassland/hill/mountain.
- Visit to a local polluted site-urban/Rural/industrial/ Agricultural.
- Study of common plants, insects, birds.
- Study of simple ecosystem-pond, river, hill slopes, etc.

References

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- 5. Cunningham, W.P. Cooper, T.H. Qorhani, E. & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Pub. House,

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- 18. Survey of the Environment, The Hindu (M).
- 19. Townsend C, Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (TB).

List of students undertaking the project work of EVS

Course - Bachelor of Commerce Strength of students - 47

Programme name	Class	List of students undertaking project	Place of Work	Duration
		work/field work/internship		
BCom Pass	BCOM 1st	ANANYA	GC Meham	1 Day
Course (EVS)				
Course (LV3)	BCOM 1st	ANJALI	GC Meham	1 Day
	BCOM 1st	ARPITA	GC Meham	1 Day
	BCOM 1st	ASHA	GC Meham	1 Day
	BCOM 1st	BHUMIKA	GC Meham	1 Day
	BCOM 1st	DHRISTI	GC Meham	1 Day
	BCOM 1st	GEET	GC Meham	1 Day
	BCOM 1st	GOURJA	GC Meham	1 Day
	BCOM 1st	GUNGUN	GC Meham	1 Day
	BCOM 1st	HARSHITA	GC Meham	1 Day
	BCOM 1st	HEMA	GC Meham	1 Day
	BCOM 1st	JYOTI NARANG	GC Meham	1 Day
	BCOM 1st	MANISHA	GC Meham	1 Day
	BCOM 1st	MUSKAN	GC Meham	1 Day
	BCOM 1st	MUSKAN	GC Meham	1 Day
	BCOM 1st	NEHA RANI	GC Meham	1 Day
	BCOM 1st	NIDHI	GC Meham	1 Day
	BCOM 1st	POOJA	GC Meham	1 Day
	BCOM 1st	POONAM	GC Meham	1 Day
	BCOM 1st	PREETI	GC Meham	1 Day
	BCOM 1st	SAKSHI	GC Meham	1 Day
	BCOM 1st	SAKSHI	GC Meham	1 Day
	BCOM 1st	SAKSHI	GC Meham	1 Day
	BCOM 1st	SHETAL	GC Meham	1 Day
	BCOM 1st	AMAN CNT COLLEGE	GC Meham	1 Day
	BCOM 1st	AMIT	GC Meham	1 Day
	BCOM 1st	ANKIT	GC Meham	1 Day
	BCOM 1st	ANUJ	GC Meham	1 Day
	BCOM 1st	ASHOK	GC Meham	1 Day
	BCOM 1st	GAURAV	GC Meham	1 Day
	BCOM 1st	HARSH	GC Meham	1 Day
	BCOM 1st	HIMANSHU	GC Meham	1 Day
	BCOM 1st	JITENDER	GC Meham	1 Day
	BCOM 1st	KRISHN LAL	GC Meham	1 Day
	BCOM 1st	MANISH	GC Meham	1 Day
	BCOM 1st	MANOJ	GC Meham	1 Day
	BCOM 1st	MOHIT	GC Meham	1 Day
	BCOM 1st	NAKUL	GC Meham	1 Day
	BCOM 1st	NITIN	GC Meham	1 Day

BCOM 1st	PARIYAG	GC Meham	1 Day
BCOM 1st	RAHUL	GC Meham	1 Day
BCOM 1st	RAVI	GC Meham	1 Day
BCOM 1st	SANJEET	GC Meham	1 Day

BCOM 1st	SOMNATH	GC Meham	1 Day
BCOM 1st	TARUN	GC Meham	1 Day
BCOM 1st	UMANG	GC Meham	1 Day
BCOM tsu/s	YOGESH	GC Meham	1 Day

* \$ 601/ED.

Estd. 1987 महाविद्यालय

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Report prepared by Student







