

# Success Guides

## Under Graduate Environmental Studies

প্রাক্ স্নাতক পরিবেশ অধ্যয়ন

### 7-years Solved Questions

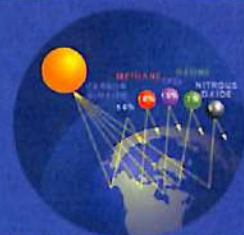
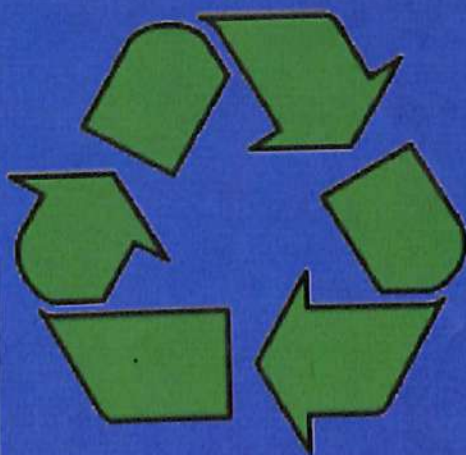
(With 100 Model Questions)

For

**B.A./B.Sc./B.Com./B.C.A.  
/M.B.B.S/B.E Course**

As per New Under Graduate Syllabus

(Approved by the 110th meeting of the undergraduate board held on 07.12.2012)



Dr. Mridul Buragohain

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By

**Dr. Mridul Buragohain, M.Sc, B.Ed, M.Phil, Ph.D**

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## **Under Graduate Environmental Studies**

A success guide book for students of B.A./B.Sc./B.Com./B.C.A./M.B.B.S/B.E. Course, is written by Dr. Mridul Buragohain, Assistant Professor, Department of chemistry, Lakhimpur Girls' College, North Lakhimpur-787031; published by GigaByte, North Lakhimpur, Price Rupees 60/- only.

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## **Preface**

I am pleased to present the book Under Graduate Environmental Studies, a success guide book for students of B.A./B.Sc./B.Com./B.C.A./M.B.B.S/B.E. Course. The book has been written strictly according to the new syllabus prescribed by Dibrugarh University, 2011-2012.

In compliance of UGC directives, every university including Dibrugarh University started to impart environmental education. In semester system of under graduate course, the examination pattern of environmental studies has been modified by the university.

The book has been written in question – answer style by complete solving last 7-years questions set by Dibrugarh University strictly. There is no such type of book which can be studied by the students for modified exam pattern of environmental studies. I hope that the book will be quite helpful to the students in acquiring the style and nature of questions that are asked in the previous year's examinations.

I sincerely hope that the book will be appreciated by our learned colleagues and students. I shall be glad to receive constructive suggestions for the further improvement of the book and will be gratefully acknowledged.

Lakhimpur  
March, 2014

Dr. Mridul Buragohain

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## Rules for Conducting the 'Environmental Studies' Course

1. There shall be a compulsory Course (paper) on Environmental Studies to be offered in all Under Graduate Teaching Programmes of Dibrugarh University.
2. The End Semester/Term Examination on the Environmental Studies Course shall be held for 100 marks covering all units of the syllabus approved by the University.
3. The question pattern of the Environmental Studies Course shall be Multiple Choice Objective Type comprising of 50 questions carrying 2 marks each. The candidates shall have to write the answers in the response sheet provided by the University.
4. There shall be no internal assessment and the students need not prepare Field Study report on the course.
5. The End Semester/Term Examination of the Environmental Studies Course for all Under Graduate Teaching Programmes of Dibrugarh University shall be held on the same date as per schedule to be modified.
6. The duration of the examination of the Environmental Studies Course shall be of 90 minutes.

7. A candidate must secure at least 30 marks in order to pass in the Environmental Studies Course. The marks secured in the Course by a candidate shall be awarded in grades and that shall be shown in the Mark sheet / Grade sheet as below:-

Marks secured by a Candidate	Grades	Performance
80 – 100 Marks	A	Excellent
60 – 79 Marks	B	Good
45 – 59 Marks	C	Average
30 – 44 Marks	D	Fair
Below 30 Marks	F	Fail

8. A candidate who fails in the Environmental Studies Course shall be entitled to two additional consecutive chances to clear the Course.
9. A candidate who does not pass in the Environmental Studies Course shall not be qualified for the relevant degree.
10. The marks/grades secured by the candidates in the Environmental Studies Course shall not be added to the grand total marks of other Subjects.

## Chapter wise Marks Distributions for Environmental Studies

Course Code: ENVS

Total Marks: 100

Unit	Chapter	Marks
Unit-1	The multidisciplinary nature of environmental studies	05
Unit-2	Natural Resources	20
Unit-3	Ecosystems	17
Unit-4	Biodiversity and its conservation	16
Unit-5	Environmental Pollution	17
Unit-6	Social Issues and the Environment	15
Unit-7	Human Population and the Environment	10
Total Marks		100

**Revised Dibrugarh University Syllabus for Environmental Studies for all under Graduate Degree Programmes/Courses**

(Approved by the 110th meeting of the Under Graduate Board held on 07.12.2012 w.e.f 2013-2014 academic session)

Course Code: ENVS

(Total Marks: 100)

**Unit 1: The Multidisciplinary nature of environmental studies**

Definition, scope and importance, Need for public awareness.

**Marks: 5**

**Unit 2: Natural Resources**

Renewable and non-renewable resources:

- Natural resources and associated problems.
  - a) Forest Resources: Use and over-exploitation, deforestation. Timber extraction, mining, dams and their effects on forests and tribal people.
  - b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
  - c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
  - d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, and salinity.

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

f) Land resources: Land as a resources, land degradation, man-induced landslides, soil erosion and desertification.

- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

**Marks: 20**

**Unit 3: 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, characteristics 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)

**Marks: 17**

**Unit 4: 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
- Hot-spots of biodiversity – India.

- Threats to biodiversity: habits loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species.
- Conservation of biodiversity: in-situ Ex-situ conservation of biodiversity.

#### Unit 5: Environmental Pollution

Marks: 16

- Definition, Causes, effects and control measures of:
  - a. Air pollution
  - b. Water pollution
  - c. Soil pollution
  - d. Noise pollution
  - e. Thermal pollution
  - f. Nuclear hazards
- Solid waste Management: Causes, effects and control measures of urban and industrial wastes – biodegradable and non biodegradable wastes.
- Role of an individual in prevention of pollution.
- Disaster Management: Floods, earthquake, cyclone and landslides.

Marks: 17

#### Unit 6: Social Issues and the Environment

- From Unsustainable to Sustainable development.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people, its problems and concerns.
- Environmental ethics.
- Climate change, global warming, acid rain, ozone layer depletion, unclear accidents and holocaust.

- Wasteland reclamation.
- Consumerism and waste products.
- Environmental Legislation.
- Public awareness.

Marks: 15

#### Unit 7: Human Population and the Environment

- Population growth, variation among nations.
- Population explosion – Family Welfare Programme.
- Environment and human health and hygiene (including Sanitation and HIV/AIDS) etc.
- Role of Information Technology in Environment and Human Health.

Marks: 10

## Chapter-1

### Solved Question Paper-2013 4th Sem. TDC, ENVS

1. পৰিবেশৰ শক্তিৰ মূল উৎস হ'ল

Chief source of energy in environment is

- |             |       |
|-------------|-------|
| (a) অগ্নি   | Fire  |
| (b) চন্দ্ৰ  | Moon  |
| (c) সূৰ্য্য | Sun   |
| (d) তৰা     | Stars |

Ans: (c) সূৰ্য্য (Sun)

2. বুম খেতিয়ে

Shifting or Jhum cultivation leads to

- |                         |                   |
|-------------------------|-------------------|
| (a) মাটি খহনীয়া কৰে    | Soil erosion      |
| (b) মাটি সংৰক্ষণ কৰে    | Soil conservation |
| (c) মাটি পুনৰুদ্ধাৰ কৰে | Soil reclamation  |
| (d) শিলৰ সৃষ্টি কৰে     | Rock formation    |

Ans: (a) মাটি খহনীয়া কৰে (Soil erosion)



# Under Graduate Environmental Studies

## প্ৰাক্ স্নাতক পৰিৱেশ অধ্যয়ন



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