

Total No. of Questions : 5]

[Total No. of Printed Pages : 2

**[3683]-1**

**P. G. D. E. M. (Semester - I) Examination - 2009**

**ENVIRONMENTAL MANAGEMENT TECHNIQUES - I**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

**Instructions :**

- (1) Answer *any four* questions.
- (2) All questions carry equal marks.
- (3) Use of calculator and statistical tables is allowed.

**Q.1)** What is meant by Measures of Central Tendency ? Show how to compute them with the help of a suitable example.

**Q.2)** Calculate Rank Correlation between distance from a Road (x) and Tree Density (y) :

<b>Distance from a Road (x) in m.</b>	1	2	4	6	9	12	13	16	18	20
<b>Tree Density No. of Trees/ m<sup>2</sup> (y)</b>	0.7	1.2	1.9	1.5	2.0	2.5	3	4	6	5

**Q.3)** Calculate three-yearly moving average for the following data and represent it graphically :

<b>Year</b>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Rain Fall in mm</b>	182	205	230	236	238	248	255	280	308	320

Interpret results.

**Q.4)** Explain with examples how Classification and Tabulation of Data are useful to understand environment ?

**Q.5)** Write notes : (**Any Two**)

- (a) Binomial Distribution
  - (b) Dispersion
  - (c) Chi-square Test
-

Total No. of Questions : 7]

[Total No. of Printed Pages : 1

**[3683]-101**

**P. G. D. E. M. (Semester - I) Examination - 2009**  
**PRINCIPLES AND PRACTICES OF MANAGEMENT**  
**(2008 Pattern)**

Time : 3 Hours]

[Max. Marks : 70

*Instructions :*

- (1) Attempt *any five* questions.
  - (2) All questions carry equal marks.
- 
- 

- Q.1)** “Management is a dynamic discipline, its strength lies in its evolution.” Discuss.
- Q.2)** Explain the Premises and the Process of Planning.
- Q.3)** “A company should develop an organisational structure, to suit the nature and expanse of its Business.” Express your viewpoint, regarding this statement.
- Q.4)** Bring out concept and significance of controlling as a Management Function.
- Q.5)** Present major steps in the recruitment process, pertaining to a vacancy in the manager grade, in a private sector company.
- Q.6)** Discuss scope and significance of Total Quality Management. Quote suitable examples.
- Q.7)** Write short notes : **(Any Two)**
  - (a) Span of Management
  - (b) Delegation of Authority
  - (c) Principles of ‘Systems School’
  - (d) Scheduling

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**[3683]-101/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 2

[3683]-102

P. G. D. E. M. (Semester - I) Examination - 2009

DATA COLLECTION, ANALYSIS AND REPORTING

(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 70

*Instructions :*

- (1) Attempt *total four* questions.
- (2) Figures to the right indicate full marks.
- (3) Use of calculator and statistical table is allowed.

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Q.1) (A) Explain the term Dispersion. Also state various measures of Dispersion. [10]

(B) Compute Mean and Standard Deviation for the following data : [10]

<b>Snowfall in cm</b>	80-130	130-180	180-230	230-280	280-330	330-380
<b>No. of Years</b>	16	19	43	28	16	6

**OR**

Q.2) (A) What is meant by Scatter Diagram ? Explain its usefulness in understanding relationship between two variables. [10]

(B) Construct Histogram and Frequency Polygon for the following data : [10]

<b>Pollens in Air (ppm)</b>	0-50	50-100	100-150	150-200	200-250	250-300
<b>No. of Days</b>	16	20	24	56	52	12

**Q.3) (A)** Explain the term ‘Simple Random Sampling With Replacement’ with suitable example. [10]

**(B)** Represent the following data by a suitable bar chart : [10]

Year	No. of Students			
	Arts	Commerce	Science	Total
2000-2001	300	550	575	1425
2001-2002	350	585	625	1560
2002-2003	375	625	650	1650

**OR**

**Q.4) (A)** What is meant by Data ? Explain various types of Data by giving examples from Environmental Management. [10]

**(B) (a)** State purpose of Moving Average. [05]

**(b)** What is meant by Critical Value ? [05]

**Q.5) (A)** Explain the following terms : [10]

Null Hypothesis, Type (I) and (II) Errors

**(B)** Given are two lines of regression : [10]

$$3x - 6y = 10 \quad \text{and} \quad 2y - 6x = -32$$

Find Correlation Coefficient between x and y.

**Q.6) Write notes : (Any Two)** [10]

**(a)** Chi-square Test

**(b)** Normal Distribution

**(c)** Ischikawa

Total No. of Questions : 8]

[Total No. of Printed Pages : 1

**[3683]-103**

**P. G. D. E. M. (Semester - I) Examination - 2009**

**INTRODUCTION TO ENVIRONMENT MANAGEMENT**

**(2008 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 70**

***Instructions :***

- (1) Answer any five questions.*
- (2) All questions carry equal marks.*

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**Q.1)** Explain role and responsibility of Central Pollution Control Board.

**Q.2)** What are the benefits of 'Internet' in Environment Protection ? Give examples.

**Q.3)** Explain impact of any two sub-systeming, existing in Business Environment. Give examples.

**Q.4)** Write a detailed note on Software Packages used in GIS.

**Q.5)** Explain usual inclusions of the annual report of Ministry of Environment.

**Q.6)** What is 74th Amendment of the Constitution, pertaining to Local Government ?

**Q.7)** In the ecological content, which guidelines the Government of India give for choosing an Industrial Location.

**Q.8)** Write short notes : **(Any Two)**

- (a) Notification and Bills
- (b) Protection of Forest
- (c) Utility of Gazette
- (d) Control and Command Regime

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**[3683]-103/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-104**

**P. G. D. E. M. (Semester - I) Examination - 2009**

**INTRODUCTION TO ENVIRONMENT**

**(2008 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 70**

*Instructions :*

- (1) *Attempt total four questions.*
- (2) *Figures to the right indicate full marks.*

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**Q.1)** Justify relevance of Environmental Studies with respect to Technological Development. **[20]**

**OR**

**Q.2)** Explain interdependence of Man and Environment. **[20]**

**Q.3)** What do you understand by Cultural Environment ? Explain how it can be incorporated in the Environmental Conservation ? **[20]**

**OR**

**Q.4)** Describe Aquatic Ecosystems and their economic significance. **[20]**

**Q.5)** Discuss ways and means of minimizing human impact on Climate. **[20]**

**Q.6)** Write notes on **any two** of the following : **[10]**

- (a) Lithosphere
- (b) Natural Selection
- (c) Structure of Atmosphere

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**[3683]-104/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

[3683]-105

P. G. D. E. M. (Semester - I) Examination - 2009

ENVIRONMENTAL LEGISLATION

(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 70

*Instructions :*

- (1) *Q. No. 1 is compulsory.*
- (2) *Answer **any 3** out of the remaining.*
- (3) *Marks at right indicate full marks.*

- 
- 
- Q.1)** Explain Environmental Protection. What are the provisions in the Directive Principles of State Policy ? [25]
- Q.2)** Discuss important provisions for Control of Air Pollution under the Act. [15]
- Q.3)** Discuss provisions regarding Manufacturing, Import and Handling of Hazardous Chemicals. [15]
- Q.4)** State brief history and the judgment thereon of Bhopal Gas Leak Case. [15]
- Q.5)** Discuss in detail provisions under Water Cess Rules and Act. [15]
- Q.6)** Write short notes : (**Any Three**) [15]
- (a) Public Liability Insurance
  - (b) Ganga Action Plan
  - (c) Hazardous Waste
  - (d) Environmental Protection

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[3683]-105/1

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-2**

**P. G. D. E. M. (Semester - I) Examination - 2009**

**BUSINESS ENVIRONMENT AND GOVERNMENT POLICY**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

**Instructions :**

- (1) Attempt *any four* of the following questions.
  - (2) All questions carry equal marks.
- 
- 

- Q.1)** Describe Cultural and Legal Environments and their impact on business, giving suitable examples.
- Q.2)** Discuss importance of Fundamental Rights of the Citizens of India.
- Q.3)** Explain the following with suitable examples :
  - (a) Industrial Location with Respect to Environment and Ecology.
  - (b) Economic Instruments for the Protection of Environment.
- Q.4)** Write a descriptive note on Environmental Policy of Government of India, highlighting its salient features.
- Q.5)** Explain how a 'Bill' is tabled in the Parliament and how does it become an 'Act' ?
- Q.6)** Write short notes : **(Any Three)**
  - (a) Functioning of the Ministry of Environment and Forests
  - (b) Salient Features of the Factories Act
  - (c) 74th Amendment and its Relevance to Local Self Governance
  - (d) Concept of Public Finance

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-201**

**P. G. D. E. M. (Semester - II) Examination - 2009**

**NATURAL RESOURCE MANAGEMENT**

**(2008 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 70**

*Instructions :*

- (1) *Attempt total four questions.*
- (2) *Figures to the right indicate full marks.*

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**Q.1) Describe Forest and Forest Products. Add note on Tribals and Forests. [20]**

**OR**

**Q.2) Discuss various means of Wild Life Conservation with suitable examples. [20]**

**Q.3) Discuss causes of present energy crisis and explain management strategy to resolve it. [20]**

**OR**

**Q.4) Describe Soil as a Basic Natural Resource, its Formation and Composition. [20]**

**Q.5) Describe Inland Water Resources and their economic potential with respect to Fisheries. [20]**

**Q.6) Write notes : (Any Two) [10]**

- (a) Eco-tourism
- (b) Solar Energy
- (c) Desertification

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**[3683]-201/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

[3683]-202

P. G. D. E. M. (Semester - II) Examination - 2009

ENVIRONMENTAL MANAGEMENT AND EIA

(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 70

*Instructions :*

- (1) Attempt *total four* questions.
- (2) Figures to the right indicate full marks.

---

Q.1) Discuss salient features of the World Summit on Sustainable Development. [20]

OR

Q.2) Give an account of preamble, scope and objections of Environmental Audit. [20]

Q.3) Explain concept of Sustainable Development with suitable examples. [20]

OR

Q.4) Describe ISO 14001 as a tool for achieving Environment Friendly Production System. [20]

Q.5) Discuss any case study related with ISO 14001. [20]

Q.6) Write notes on **any two** of the following : [10]

- (a) Contents of EA Report
- (b) Rio-declaration
- (c) Monitoring Plans in EIA

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[3683]-202/1

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-203**

**P. G. D. E. M. (Semester - II) Examination - 2009**

**ENVIRONMENT POLLUTION AND DISASTER MANAGEMENT**

**(2008 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 70**

***Instructions :***

- (1) Attempt total four questions.*
- (2) Figures to the right indicate full marks.*

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**Q.1)** Define Water Pollution. Describe various sources and effect of Water Pollution. Add a note on BOD. **[20]**

**OR**

**Q.2)** Describe Occupational Health Hazards with suitable examples. **[20]**

**Q.3)** Give an account of types and classification of Waste. Add a note on Municipal Solid Waste. **[20]**

**OR**

**Q.4)** Explain Land/Soil Pollution and its harmful effects. Add a note on recycling of Waste Materials. **[20]**

**Q.5)** Describe Disaster Management, its need and importance particularly with respect to rapid industrialization in India. **[20]**

**Q.6)** Write notes on **any two** of the following : **[10]**

- (a) Occupational Hazards
- (b) MSW
- (c) Algal Bloom

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**[3683]-203/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-204**

**P. G. D. E. M. (Semester - II) Examination - 2009**

**ENVIRONMENTAL ECONOMICS AND  
INDIAN ENVIRONMENTAL SCENARIO**

**(2008 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 70**

**Instructions :**

- (1) Attempt *total four* questions.
- (2) Figures to the right indicate full marks.

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**Q.1)** Give a detailed account of Green Marketing with suitable examples. [20]

**OR**

**Q.2)** What do you understand by Natural Resource Accounting ? Add a note on Green Accounting. [20]

**Q.3)** Discuss a case study - Sardar Sarovar Dam Controversy. [20]

**OR**

**Q.4)** Describe role of WWF and Green Peace Movement as major Environmental Organisations in Europe and Asia. [20]

**Q.5)** Discuss concept of Environmental Economics. Add a note on Green Accounting with suitable examples. [20]

**Q.6)** Write notes : (Any Two) [10]

- (a) CPCB
- (b) Rio Declaration
- (c) Chipco Movement

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**[3683]-204/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-21**

**P. G. D. E. M. (Semester - II) Examination - 2009**

**NATURAL RESOURCE MANAGEMENT**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

*(1) Attempt any four questions.*

*(2) All questions carry equal marks.*

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**Q.1)** Describe concept of Forest Management and its need.

**Q.2)** Explain concept of National Parks and Sanctuaries with examples.

**Q.3)** Describe Conventional Sources of Energy and their ecological significance.

**Q.4)** Describe Soil as a Basic Natural Resource. Add a note on its composition.

**Q.5)** Describe Inland Water Resources and their economic potential.

**Q.6)** Write notes on **any two** of the following :

(a) Social Forestry

(b) Wind Energy

(c) Rain Water Harvesting

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**[3683]-21/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-22**

**P. G. D. E. M. (Semester - II) Examination - 2009**

**ENVIRONMENTAL MANAGEMENT TECHNIQUES - II**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

*Instructions :*

- (1) Attempt *any four* questions.
  - (2) All questions carry equal marks.
- 
- 

**Q.1)** Explain Procedure of Preparing and Saving a Document in MS-WORD.

**Q.2)** Explain Windows Operating System. Enlist its advantages and commands.

**Q.3)** (A) What is meant by I/O Devices ?

(B) Illustrate how bar charts are prepared in EXCEL ?

**Q.4)** What do you understand by Data Base Management System ? Add a note on Data Types.

**Q.5)** What is meant by GIS ? Explain its Applications in Environmental Studies.

**Q.6)** Write notes on **any two** of the following :

- (a) High Level Languages
- (b) Spread Sheet
- (c) Use of Internet as a Tool

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**[3683]-22/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-23**

**P. G. D. E. M. (Semester - II) Examination - 2009**

**ENVIRONMENTAL MANAGEMENT SYSTEM**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

- (1) Attempt any four questions.*
  - (2) All questions carry equal marks.*
- 
- 

**Q.1)** Explain Concept of Sustainable Development from Stockholm to Rio.

**Q.2)** Describe background and evolution of EMS.

**Q.3)** Describe WTO and its implications on Trade.

**Q.4)** Enumerate salient features of ISO-14001.

**Q.5)** Discuss need of sustainability in the Energy Sector.

**Q.6)** Write notes on **any two** of the following :

- (a) Environmental Audit
  - (b) TQM
  - (c) Agenda-21
- 

**[3683]-23/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-3**

**P. G. D. E. M. (Semester - I) Examination - 2009**

**INTRODUCTION TO ENVIRONMENT MANAGEMENT**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

- (1) Attempt any four questions.*
- (2) All questions carry equal marks.*

---

**Q.1)** Justify relevance of environmental studies with respect to Technological Development.

**Q.2)** Explain interdependence of Man and Environment.

**Q.3)** What do you understand by Cultural Environment ? Explain how it can be incorporated in Environmental Conservation.

**Q.4)** Describe Aquatic Ecosystems and their Economic Significance.

**Q.5)** Discuss ways and means of minimizing human impact on Climate.

**Q.6)** Write notes on **any two** of the following :

- (a) Environmental Management
- (b) Lithosphere
- (c) Natural Selection

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**[3683]-3/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-31**

**P. G. D. E. M. (Semester - III) Examination - 2009**

**ENVIRONMENTAL POLLUTION**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

- (1) Attempt **any four** questions.*
  - (2) All questions carry equal marks.*
- 
- 

**Q.1)** Define Air Pollution. Explain Acid Rain and its Consequences with examples.

**Q.2)** What are different sources of Water Pollution ? Suggest suitable control measures.

**Q.3)** Describe causes and effect of Soil Pollution.

**Q.4)** Noise Pollution is a Socio-cultural Problem. Discuss with control measures.

**Q.5)** Describe Bio-accumulation and Bio-magnification with examples.

**Q.6)** Write short notes : **(Any Two)**

- (a) Ground Water Pollution
  - (b) Garbage Disposable
  - (c) NIMBY
- 

**[3683]-31/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-32**

**P. G. D. E. M. (Semester - III) Examination - 2009**

**DISASTER MANAGEMENT**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

- (1) *Attempt any four questions.*
- (2) *All questions carry equal marks.*

---

**Q.1)** Define Natural Hazards and Disasters. Explain Cumulative Atmospheric Hazards with appropriate examples.

**Q.2)** Describe role of Government Agencies in an Event of Natural Calamity.

**Q.3)** Explain Drought with emphasis on its impact and control measures.

**Q.4)** What are Epidemics ? Explain any two Epidemics of Global Relevance.

**Q.5)** Describe how Hazardous Chemical Rules help in preventing Industrial Disaster ?

**Q.6)** Write notes : **(Any Two)**

- (a) Plague
- (b) Floods - Causes and Control Measures
- (c) Social Organisation in Disaster Mitigation

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**[3683]-32/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-33**

**P. G. D. E. M. (Semester - III) Examination - 2009**

**ENVIRONMENT IMPACT, ASSESSMENT AND AUDIT**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

*(1) Answer any four questions.*

*(2) All questions carry equal marks.*

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**Q.1) Explain Environmental Management Planning. Give examples. [15]**

**Q.2) Explain the following : (Any Two) [15]**

(a) National Level Planning

(b) Hazardous Waste Audit

(c) Pollution Audit

**Q.3) What are the objectives of Environmental Impact Assessment of a Project ? Give examples. [15]**

**Q.4) Enumerate role of 'Public Participation' in Environmental Impact Assessment. Give examples. [15]**

**Q.5) Explain Qualities of Environment Auditor with reference to Statutory Environmental Audit. [15]**

**Q.6) Write short notes : (Any Two) [15]**

(a) Strength and Weakness of Big Dams

(b) Water Budgeting

(c) Regional Planning

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**[3683]-33/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-41**

**P. G. D. E. M. (Semester - IV) Examination - 2009**

**OCCUPATIONAL HEALTH, SAFETY AND  
ENVIRONMENTAL HAZARDS**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

- (1) Attempt any four questions.*
  - (2) All questions carry equal marks.*
- 
- 

**Q.1)** Define Disease. Explain Communicable and Non-communicable Diseases with examples.

**Q.2)** Describe Protective and Preventive Measures against Chemical Hazards.

**Q.3)** Explain environment as a strong determinant of Health.

**Q.4)** Discuss types and causes of accidents at work place. Add a note on safety norms.

**Q.5)** Describe ILO and WHO guidelines on Industrial Hygiene.

**Q.6)** Write short notes : **(Any Two)**

- (a) Social Environment
  - (b) OSHA Standards
  - (c) Occupational Hazards
- 

**[3683]-41/1**

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

[3683]-42

P. G. D. E. M. (Semester - IV) Examination - 2009

ENVIRONMENTAL POLICY AND LEGISLATION

(2005 Pattern)

Time : 3 Hours]

[Max. Marks : 60

*Instructions :*

- (1) *Attempt any four questions.*
- (2) *All questions carry equal marks.*

---

**Q.1)** The Constitution of India ensures environmental protection. Justify.

**Q.2)** Explain how provisions of the Water Act, 1974 are useful in Environmental Management.

**Q.3)** Describe Environmental Protection Rules of 1994 with respect to Environmental Clearance.

**Q.4)** Enlist measures suggested for the Prevention and Control of Environmental Pollution under Motor Vehicle Act.

**Q.5)** Discuss Environmental Responsibilities of a Pharmaceutical Company and the procedure to obtain consent under appropriate Acts and Rules.

**Q.6)** Write notes : **(Any Two)**

- (a) Central Pollution Control Board
- (b) Public Liability Insurance Act, 1991
- (c) Importance of Environmental Legislation

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[3683]-42/1

Total No. of Questions : 6]

[Total No. of Printed Pages : 1

**[3683]-43**

**P. G. D. E. M. (Semester - IV) Examination - 2009**

**ENVIRONMENTAL PROMOTION MANAGEMENT**

**(2005 Pattern)**

**Time : 3 Hours]**

**[Max. Marks : 60**

***Instructions :***

- (1) Attempt **any four** questions.*
  - (2) All questions carry equal marks.*
- 
- 

**Q.1)** Discuss a case study illustrating Tehri Dam Controversy.

**Q.2)** Give an account of the efforts taken to promote Environment Management at International Level.

**Q.3)** Discusses critically Environmental Policies in USA.

**Q.4)** What is meant by NIMBY Syndrome ? Illustrate with examples.

**Q.5)** Explain how NGOs promote environmental issues ?

**Q.6)** Write notes : **(Any Two)**

- (a) UNEP
  - (b) Stockholm Charter
  - (c) Green Movements
- 

**[3683]-43/1**