

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

[3683]-105/1

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.*

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

[3683]-104/1

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.*

-
-
- 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

[3683]-103/1

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.

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]

| | | | | | | |
|-----------------------|--------|---------|---------|---------|---------|---------|
| Snowfall in cm | 80-130 | 130-180 | 180-230 | 230-280 | 280-330 | 330-380 |
| No. of Years | 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]

| | | | | | | |
|-----------------------------|------|--------|---------|---------|---------|---------|
| Pollens in Air (ppm) | 0-50 | 50-100 | 100-150 | 150-200 | 200-250 | 250-300 |
| No. of Days | 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 : 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

[3683]-101/1

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

[3683]-3/1

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

[3683]-2/1

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) :

| | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Distance from a Road (x) in m. | 1 | 2 | 4 | 6 | 9 | 12 | 13 | 16 | 18 | 20 |
| Tree Density No. of Trees/ m² (y) | 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 :

| | | | | | | | | | | |
|------------------------|------|------|------|------|------|------|------|------|------|------|
| Year | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Rain Fall in mm | 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 : 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.

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

[3683]-204/1

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.*

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

[3683]-203/1

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

[3683]-202/1

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.*

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

[3683]-201/1

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]-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

[3683]-22/1

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.*
-
-

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
-

[3683]-21/1

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.*

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

[3683]-33/1

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
-

[3683]-32/1

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]-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

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

[3683]-42/1

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