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Post Graduate Diploma in Environment Management (PGDEM)
(Semester – I) Examination, 2010
Paper-104 : BUSINESS ENVIRONMENT AND GOVERNMENT POLICY
(Old) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Note : 1) All questions carry equal marks.
2) Solve any four of the following.

1. Discuss cultural, legal and constitutional sub-systems of business environment and their impact on business.
2. Critically evaluate 74th Amendment of the Constitution pertaining to local governance.
3. “International Environmental Legislation and Environmental Legislations in different countries complement each other.” Explain the statement with suitable examples.
4. Write a descriptive note on Capital and Money markets in India.
5. “Economic and industrial liberalization is a result of globalization”. Comment.
6. Write short notes (**any two**) :
 - a) Functioning of the Ministry of Law
 - b) Safety related rules in the Factory Act.
 - c) Industrial location with respect to ecology.

B/I/10/100



P.G. Dip. in Env. Mgt. (Semester – I) Examination, 2010
106 : ENVIRONMENTAL LEGISLATION (New)
(2008 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : 1) *All questions carry equal marks.*
2) *Solve any 5 questions.*

1. Describe the constitutional provisions given in the Environment Protection Act.
2. What are the rules to regulate environmental pollution as per Section 6 of Environment (Protection) Act ?
3. What is hazardous waste as per Hazardous Waste (Management And Handling) Rules 1989 ? And what is the responsibility of the occupier and operator for handling waste ?
4. Discuss the Bhopal Gas Leak Case.
5. If a major accident takes place how will you notify it as per Rule 5 of the Manufacture, Storage and Import of Hazardous Chemicals Rules ?
6. Explain the provisions for preventing pollution of water.
7. Write short notes on **any 1**.
 - a) Procedure for submission of samples for analysis as per Rule 8 of Environment (Protection) Rules.
 - b) General responsibility of occupier during industrial activity as per manufacture, storage and import of Hazardous Chemicals.
 - c) Manner of giving notice Rule 11 of Environment (Protection) Rules.
 - d) Segregation, packaging, transportation and storage of Bio-Medical waste.



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P.G.D.E.M. (Semester – I) Examination, 2010
105 : INTRODUCTION TO ENVIRONMENT (Old)
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) Answer **any four** questions.
ii) **All** questions carry **equal** marks.

1. Describe the functional aspects of an 'Ecosystem' with suitable examples.
2. Give an account of 'Hydrosphere'. Enlist factors responsible for its degradation.
3. Describe the composition and structure of atmosphere.
4. What are the means and pathways of circulation of elements in an ecosystem, give any two examples with necessary diagrams.
5. Discuss the role of technological development in environmental degradation.
6. Write notes on **any two** of the following.
 - a) Insolation
 - b) Social environment
 - c) Environmental awareness.

B/I/10/100



P.G.D.E.M. (Semester – I) Examination, 2010
101 : PRINCIPLES AND PRACTICES OF MANAGEMENT
(New) (2008 Pattern)

Time : 3 Hours

Max. Marks : 70

*Note : 1) Answer **any 5** questions.
2) **All** questions carry **equal** marks.*

1. Define Management. Explain Taylor's principles of scientific Management in detail. **14**
 2. Explain the process of Planning in detail. **14**
 3. "Coordination is the essence of Management" Discuss. **14**
 4. Discuss different types of organisational structures in detail. **14**
 5. Explain various methods of controlling. **14**
 6. Define Manpower Planning. Explain Process of Manpower Planning. **14**
 7. Explain different functions of Management in brief. **14**
 8. Write short notes (**any two**) : **14**
 - 1) Fayol's principles of Unity of command and scholar chain.
 - 2) Types of Plans
 - 3) Decision making
 - 4) Total Quality Management (TQM).
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Post Graduate Diploma in Environmental Management (Semester – I)
Examination, 2010
103 : DATA COLLECTION, ANALYSIS AND REPORTING
(New) (2008 Pattern)

Time : 3 Hours

Max. Marks : 70

*N.B : i) Answer **any four** questions.
ii) **All** questions carry **equal** marks.*

1. What is meant by Data ? How you will classify data ? Explain any two methods of data presentation.
2. With the help of proper example having atleast 10 observation values, illustrate how to compute parameters of central tendency.
3. Compute the value of correlation coefficient for the following paired data.

X	1	2	3	4	5	6	7	8	9	10
Y	0.5	1.2	3.6	6.8	7.2	9.1	11.2	14.2	16.0	20.0

Interpret the results.

4. What is meant by normal distribution ? Explain how normal probability distribution can be useful in environmental studies.
5. Discuss how different methods of sampling can be useful in data collection for understanding Environment.
6. Write notes on **any two** :
 - 1) Measures of dispersion
 - 2) Linear trend
 - 3) Analysis of variance
 - 4) Levels of significance.



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P.G.D.E.M. (Semester – I) Examination, 2010
104 : INTRODUCTION TO ENVIRONMENT MANAGEMENT
(New) (2008 Pattern)

Time : 3 Hours

Max. Marks : 70

*N.B. : i) Answer **any five** questions.
ii) All questions carry **equal** marks.*

1. Explain the need of environmental management for industries. Give examples.
2. What is the concept of ecosystem ? Explain in brief of ecological pyramids.
3. Explain the responsibility of 'Pollution Control Board'. Cite examples.
4. Why Software Packages are used in GIS ? Give examples.
5. Explain usage of 'Internet' for Protection of Environment.
6. Explain impact of any two sub-systems on business, within environment surrounding.
7. Explain in brief the duties of 'State Control Pollution Board'. Give examples.
8. Write short notes (**any two**) :
 - a) Responsibility of Central Control Pollution Board
 - b) Control and Command Regime
 - c) Impact of Carbon Dioxide and Carbon Monoxide
 - d) Utility of Gazette.

B/I/10/100



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P.G.D.E.M. (Semester – I) Examination, 2010
C. NO. 105 : INTRODUCTION TO ENVIRONMENT
(New) (2008 Pattern)

Time : 3 Hours

Max. Marks : 70

Instructions : i) Attempt total **four** questions.
ii) Figures to the **right** indicate **full** marks.

1. Discuss environment as a basis of life with appropriate examples. **20**

OR

2. Explain the interdependence of man and environment. **20**

3. Describe the realms of water in the biosphere. **20**

OR

4. Describe soil as a basic natural resource. **20**

5. Discuss human impact on vegetation and animals. **20**

6. Write notes on **any two** of the following : **10**

a) Biogeochemical cycles

b) Composition of atmosphere

c) Cultural environment.

B/I/10/100



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P.G.D.E.M. (Semester – I) Examination, 2010
103 : ENVIRONMENTAL MANAGEMENT TECHNIQUE – I
(2005 Pattern) (Old)

Time : 3 Hours

Max. Marks : 60

Instructions : 1) Answer **any four** questions.

2) **All** questions carry **equal** marks.

3) Use of statistical tables / calculators is **allowed**.

1. What is meant by dispersion ? What are the parameters expressing dispersion ? Illustrate how to calculate any one parameter of dispersion for a grouped and ungrouped data.
2. What is meant by frequency distribution ? State the rules of classification of data for both continuous and discrete series. Illustrate the same with the help of any example of your choice.
3. Following table depicts the yearly sale of pesticides from 1995 to 2004. Obtain a trend equation and estimate the value of sale in the year 2006.

Year (X)	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sale of pesticides (Y) in tons	1.8	2.5	3.5	4.2	5.4	6.6	7.4	7.9	8.7	10

4. Mean rainfall at Ahmadnagar is 55 cms. with standard deviation = 20 cms. What is the probability that a randomly selected year would observe rainfall :
 - 1) Between 35 and 55 cm,
 - 2) From 35 to 75 cm,
 - 3) Above 45 cm,
 - 4) More than 55 cm and
 - 5) Equal to 55 cm.

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5. What is meant by observed and expected values in chi-square test ? Discuss the applicability of the test by illustrating one example.
6. Write notes on **any two** :
- A) ANOVA
 - B) Application of correlation analysis in Environmental Management.
 - C) Binomial distribution.
 - D) Central tendency.
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P.G.D.E.M. (Semester – II) Examination, 2010
C.NO.203 : ENVIRONMENTAL POLLUTION AND DISASTER MANAGEMENT
(New) (2008 Pattern)

Time : 3 Hours

Max. Marks : 70

Instructions : i) Attempt total **four** questions.
ii) Figures to the **right** indicate **full** marks.

1. Describe Green House Effect and Acid Rain as important phenomenon of air Pollution. **20**

OR

2. Describe sources of water pollution. Add a note on algal bloom. **20**
3. Discuss management measures for preventing land pollution. **20**

OR

4. Describe chemical hazards in work place. **20**
5. Give an account of OHSAS-18000. **20**
6. Write notes on **any two** of the following : **10**
- a) Disaster planning
 - b) First Aid
 - c) Factory Act.
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P.G.D.E.M. (Semester – II) Examination, 2010
C. NO - 205 : ENVIRONMENTAL ECONOMICS AND
INDIAN ENVIRONMENTAL SCENARIO
(New) (2008 Pattern)

Time : 3 Hours

Max. Marks : 70

***Instructions :** i) Attempt total **four** questions.
ii) Figures to the **right** indicates **full** marks.*

1. What is meant by Green GDP ? Add a note on Natural Resource Accounting. **20**

OR

2. State any one Environmental Status Report by MoEF. **20**

3. Describe the role of UNEP in Environmental Awareness in India. **20**

OR

4. Discuss the case study on Silent Valley Project. **20**

5. Elaborate on the emergence of new Environmental Market. **20**

6. Write notes on **any two** of the following : **10**

a) Environmental Trade Barriers

b) Air quality standards of CPCB

c) GRI reports.



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P.G.D.E.M. (Semester – II) Examination, 2010
C.NO. 202 : NATURAL RESOURCE MANAGEMENT
(Old) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) *Attempt any four questions.*
ii) *All questions carry equal marks.*

1. Describe forest and explain the role of forests in maintaining ecological balance.
 2. Describe the different measures and importance of wild life conservation.
 3. Describe the landforms, their types and significance. Add a note on soil formation.
 4. Discuss the impact of energy utilization on the environment with suitable examples.
 5. Explain the need and importance of fresh water fish culture.
 6. Write notes on **any two** of the following :
 - A) Forest conservation
 - B) Natural resource
 - C) Geothermal energy.
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P.G.D.E.M. (Semester – II) Examination, 2010
C.NO. 203 : ENVIRONMENTAL MANAGEMENT TECHNIQUE – II
(Old) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

*Instructions. : i) Attempt **any four** questions.
ii) All questions carry **equal** marks.*

1. Explain the role of GIS in Environment management.
2. Write the syntax and meaning of following commands :
Dir, Del, Ver, Copy and Format.
3. Give utility of a Spread sheet. Illustrate how it can be useful for documenting multivariate data.
4. Explain procedure for preparing and saving any document in MS-Word.
5. Describe the database fundamentals.
6. Write notes on **any two** of the following :
 - a) DOS platform
 - b) ROM
 - c) I/O devices.



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P.G.D.E.M. (Semester – II) Examination, 2010
C. NO. 204 : ENVIRONMENTAL MANAGEMENT SYSTEM
(Old) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) *Attempt any four questions.*
ii) *All questions carry equal marks.*

1. Describe the concept of Sustainable development with emphasis on Energy Resource Management.
 2. Explain ISO 14001 and its benefits.
 3. Describe Corporate Social Responsibility with examples.
 4. Explain Good Management Practices and EMS records.
 5. Describe WTO and its implications on Indian trade.
 6. Write notes on :
 - a) Environmental Audit
 - b) Demings PDCA Cycle
 - c) EEE bottom line.
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P.G.D.E.M. (Semester III) Examination, 2010
301 : ENVIRONMENTAL POLLUTION
(Old) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) *Attempt any four questions.*
ii) *All questions carry equal marks.*

1. Differentiate between Sound and Noise. Describe the health hazards of Noise Pollution.
 2. Define water pollution, its sources and control measures.
 3. Describe the causes and effects of air pollution.
 4. Describe Environmental pollution. Describe the importance of pollution studies in present scenario.
 5. Discuss sound pollution as a gift of modern technological age with examples.
 6. Write notes on **any two** of the following :
 - a) NIMBY
 - b) Solid waste disposal
 - c) Energy from refuse.
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P.G.D.E.M. (Semester III) Examination, 2010
C. NO. 302 : DISASTER MANAGEMENT (Old)
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) Attempt *any four* questions.
ii) *All* questions carry **equal** marks.

1. Discuss in detail the meaning of Environmental Hazard and Disaster.
 2. Define 'Droughts'. Explain causes of droughts with examples.
 3. Describe Industrial disasters with suitable examples.
 4. Explain the need and importance of Disaster management.
 5. Give an account of Government agencies relevant to natural calamities.
 6. Write short notes on **any two** of the following :
 - a) Earthquake
 - b) Epidemics
 - c) Floods.
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P.G.D.E.M. (Semester – III) Examination, 2010
303 : ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT
(2005 Pattern) (Old)

Time : 3 Hours

Max. Marks : 70

- N. B.:* i) Answer **any 3** questions from **1** to **5**. and Q.No. **6** is **compulsory**.
ii) Figures to the **right** indicate marks.
iii) Attempt total **4** questions.

1. What are the different objectives of 'EIA' in developing countries ? Give examples. **20**
2. Write a note on, salient features of ISO 14001. **20**
3. Explain **any two** : **20**
 - a) Public consultation programmes
 - b) BOD and COD
 - c) UNEP.
4. Define sustainable development. Explain with reference from Stockholm to Johansburg. **20**
5. Explain the concept of 'WTO'. Explain its scope, objectives and merits. Give examples. **20**
6. Write a detailed note on : **10**

'Qualities of an Environmental Auditor'.



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P.G.D.E.M. (Semester IV) (Old) Examination, 2010
401 : OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENTAL HAZARDS
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) *Attempt any four questions.*
ii) *All questions carry equal marks.*

1. Describe types of industrial accidents and their causes.
 2. Explain the concept and definition of health with reference to disease with examples.
 3. Discuss occupational health hazards caused by dust and noise.
 4. How will you organize safety programmes for training of workers ? Explain with suitable examples.
 5. Explain various OSHA standards for industrial hygiene and safety with examples.
 6. Write notes on **any two** of the following :
 - A) Social environment
 - B) Malaria
 - C) Stress factors in work environment.
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P.G.D.E.M. (Semester IV) (Old) Examination, 2010
C.NO. 402 : ENVIRONMENTAL POLICY AND LEGISLATION
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) *Attempt any four questions.*
ii) *All questions carry equal marks.*

1. What are the provisions in the directive principles of state policy for environmental Protection ?
2. What are the powers and functions of Central Board according to water (prevention and control of pollution) Act of 1978 ?
3. State the particular provisions of Environment Protection Act related to management and handling of hazardous waste.
4. Enlist measures suggested for the prevention, control and abatement of environmental pollution, under Factory Act.
5. Describe the Public Liability Insurance Act 1991.
6. Write notes on **any two** of the following :
 - A) Functions of State Pollution Board
 - B) Forest Act
 - C) Criminal procedure code of Nuisance.



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P.G.D.E.M. (Semester – IV) (Old) Examination, 2010
C.NO. 404 : ENVIRONMENTAL PROMOTION MANAGEMENT
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) Attempt *any four* questions.
ii) *All* questions carry **equal** marks.

1. Explain the role of environmental education in promoting environment management.
 2. Discuss UNCED-1992 and its achievements.
 3. Describe Green movements and its impact on environmental conservation.
 4. Give an account of environment policies of USA.
 5. Describe a case study illustrating “Bhopal Gas Tragedy”.
 6. Write notes on **any two** of the following :
 - a) NIMBY
 - b) Green marketing
 - c) ENVIS.
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