



[3983] – 12

P.G. Diploma in Environmental Management (Sem. – I) Examination, 2011
104 : BUSINESS ENVIRONMENT AND GOVERNMENT
POLICY (Old)
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

*Instructions : a) Attempt **any four** of the following.*
*b) All questions carry **equal** marks.*

1. Describe Social and Economic environment and its impact on business.
2. Explain the role of any three financial institutions and its contribution to economic development of the country.
3. Discuss the importance of fundamental rights of the citizens of India and its relation to the protection of environment.
4. Analyze difference between Bill and Act and also describe parliamentary process as to how a bill becomes an act.
5. “The policy of globalization has proved to be successful for the economic growth of the country”. Comment on the statement giving different dimensions of globalization.
6. Write short notes on (**any three**) :
 - a) Functioning of Ministry of Law
 - b) 74th amendment with respect to self governance
 - c) Capital and money market
 - d) Public Finance.



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P.G.Diploma in Environment Management (Semester – I)
Examination, 2011
101 : PRINCIPLES AND PRACTISES OF MANAGEMENT
(2008 Pattern)

Time : 3 Hours

Max. Marks : 70

*Note : 1) Attempt **any five** questions.
2) All questions carry **equal** marks.*

1. Explain in detail, the basic functions of management.
2. Describe the Human Relations Approach to management thought. Discuss its merits and demerits in relation to other approaches.
3. Discuss the concept of planning. Outline the process of planning.
4. Explain the purpose and process of organizing. Which are the different types of organizational structures ?
5. Discuss the modern control devices. How do they compare with the traditional control devices ?
6. Elaborate the scope and significance of manpower planning.
7. Write notes on **any two** :
 - a) Decision making
 - b) Total Quality Management
 - c) Span of Management.

B/I/11/120



[3983] – 102

**Post Graduate Diploma in Environmental Management
(P.G.D.E.M.) (Semester – I) Examination, 2011
103 : 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) Question No. 5 is **compulsory**.

1. What is meant by the measures of central tendency ? Illustrate how to compute them with the help of suitable example. **20**
2. A) Define correlation and coefficient and its applicability in environmental studies. **10**
B) Find mean deviation for the data : **10**

Class	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90
Frequency	18	26	39	31	49	40	28	21

3. Calculate rank correlation between distance from a road (X) and tree density (Y).

Distance from Road (Meters)	1	2	4	6	9	12	13	16	18	20
Tree density No. of Trees/m ²	0.7	1.2	1.1	1.5	2.0	2.5	3.0	4.0	5.0	6.0

4. Mean annual rainfall of Ahmedabad is 62 cm. with standard deviation 14 cm. Assuming the distribution to be normal, state the probability that a randomly selected year observe rainfall :
i) More than 76 cm. ii) Between 48 and 74 cm.
iii) Less than 60 cm. iv) More than 45 cm. **20**
5. Write notes on **any two** : **10**
 - a) ANOVA
 - b) Measures of dispersion
 - c) Regression.

B/I/11/120



[3983] – 103

P.G.D.E.M. (Semester – I) Examination, 2011
104 : INTRODUCTION TO ENVIRONMENT MANAGEMENT
(2008 Pattern)

Time: 3 Hours

Max. Marks: 70

*N.B. : 1) Answer **any five** questions.*

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

1. Explain the concept of Disaster Management and its mitigation. Give examples.
2. What are the important inclusion in Annual Report of Environment and Forest Ministry ?
3. Explain :
 - a) Impact of Carbon Monoxide.
 - b) Environment impact on business.
4. Explain- software packages for GIS and MIS.
5. Explain the important functions of Central Pollution Control Board.
6. Explain in brief fundamental Rights and Duties.
7. Write short notes (**any two**) :
 - a) 74th Amendment of the Constitution pertaining to Local Government.
 - b) The Command and Control Regim
 - c) Environmental Legislation.



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P.G.D.E.M. (Semester – I) Examination, 2011
105 : INTRODUCTION TO ENVIRONMENT
(2008 Pattern)

Time: 3 Hours

Max. Marks: 70

Instructions : i) Attempt total **four** questions.

ii) Figures to the **right** indicate **full** marks.

1. Describe the human activities that adversely influence the climate. (20)
2. Discuss the relevance of Environmental Studies with respect to Technological development. (20)
3. Describe Insolation, Terrestrial radiation and Heat budget. (20)
4. Describe the process of Soil formation. Add a note on its composition. (20)
5. Discuss the need and importance of Environmental studies. (20)
6. Write notes on **any two** of the following : (10)
 - a) Cultural environment
 - b) Biosphere
 - c) Aquatic ecosystem.



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**Post Graduate Diploma in Environmental Management (P.G.D.E.M.)
(Semester – I) Examination, 2011**

**106 : ENVIRONMENTAL LEGISLATION
(2008 Pattern)**

Time: 3 Hours

Max. Marks: 70

Instructions : 1) Attempt *total four* questions.

2) Figures to the *right* indicate *full* marks.

3) Question No. 5 is *compulsory*.

1. What are the objectives of Environment (Protection) Act, 1986 ? **20**
2. Give an account of Hazardous waste (Management and Handling) Rules. **20**
3. Describe the Powers of State pollution Control Board. **20**
4. Discuss the legal aspects of Bhopal Gas leak case. **20**
5. Write notes on **any two** : **10**
 - a) Rules to regulate Environmental pollution.
 - b) Public liability insurance.
 - c) Importance of legislations in Environmental Protection.



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P.G.D.E.M. (Semester – I) Examination, 2011
103 : ENVIRONMENT MANAGEMENT TECHNIQUE – I
(Old Course) (2005 Pattern)

Time: 3 Hours

Max. Marks: 60

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

1. Define Sampling. Describe different types of sampling with suitable example. **15**

OR

2. Average rainfall at Pune is 126 cm with standard deviation 35 cm. Assuming the distribution to be normal calculate probability that a randomly selected year observes rainfall.

i) more than 126 cm ii) less than 100 cm

iii) between 90 and 130 cm. **15**

3. What is meant by Scatter diagram ? Explain how it is useful to understand relationship between any two variables. Give the concept of regression. **15**

OR

4. Explain the significance of Chi-square test in the environmental studies. **15**

5. Obtain a regression equation for the following data :

X	Slope In Degrees	13	16	21	29	52	63	69	81	03	01
Y	Soil Moisture In %	5	12	17	21	25	6	3	2	1	50

6. Write notes on **any two** of the following : **15**

a) ANOVA

b) Fish bone diagram

c) Classification of data.



[3983] – 201

P.G.D.E.M. (Semester – II) Examination, 2011
201 : NATURAL RESOURCE 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. Discuss the Ecological and Economic importance of forest with appropriated examples. **20**
2. Describe Rain Water Harvesting. Add a note on importance of water management. **20**
3. Describe the causes and effects of degradation of land with examples. **20**
4. Enlist Non conventional sources of energy. Explain the need and importance of using these resources. **20**
5. Describe the role of National Parks and Sanctuaries in wild life conservation and add a note on a local sanctuary of your area. **20**
6. Write notes on **any two** of the following : **10**
 - a) Forest products
 - b) Aquaculture
 - c) Biosphere reserve.

B/I/11/125



[3983] – 202

P.G.D.E.M. (Semester – II) Examination, 2011
202 : ENVIRONMENT MANAGEMENT & EIA (New)
(2008 Pattern)

Time : 3 Hours

Max. Marks : 70

Instructions : i) Attempt total **four** questions.
ii) Figures to the **right** indicate **full** marks.
iii) **Sixth** question is **compulsory**.

1. Give a detail account of Rio conference. (20)
2. Describe ISO 14001 with special emphasis on Planning and Implementation. (20)
3. Discuss any one case study relevant to ISO 14001. (20)
4. Describe EIA cycle. (20)
5. Elaborate on Environmental Management System Audit. (20)
6. Write notes on **any two** of the following : (10)
 - a) Environmental Management
 - b) Sustainable development
 - c) Environmental impact monitoring plans.



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P.G.D.E.M. (Semester – II) Examination, 2011
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** indicate **full** marks.

1. Discuss UNCED-1992. Add a note on Rio declaration. (20)
2. Discuss Sardar Sarovar Dam Controversy. (20)
3. Give an account of major Environmental Organisations and their activities. (20)
4. Discuss the emergence of New Environmental Markets with examples. (20)
5. Describe WTO and its relevance in the present times with example. (20)
6. Write notes on **any two** of the following : (10)
 - a) Eco designing
 - b) Natural resource accounting
 - c) Green marketing.



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P.G.D.E.M. (Sem. – II) Examination, 2011
203 : ENVIRONMENTAL MANAGEMENT TECHNIQUES – II
(Old) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : 1) Answer *any four* questions.
2) *All* questions carry *equal* marks.

1. Discuss various tools commonly used in MS-Word. Illustrate the procedure to use it for saving the document.
 2. A) Describe I/O devices and their working.
B) Differentiate between Programming language and machine language.
 3. Explain Windows-95 operating system. Add a note on its advantages.
 4. A) What is CPU ? Explain its functions.
B) Role of internet in environmental management.
 5. What is GIS ? Explain its importance in environmental studies.
 6. Write notes on **any two** of the following :
 - a) RAM
 - b) Evolution of Computers
 - c) Power point presentation.
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B/I/11/100



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P.G.D.E.M. (Semester – II) Examination, 2011
204 : ENVIRONMENTAL MANAGEMENT SYSTEM (Old)
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

***Instructions :** 1) Answer **any four** questions.
2) **All** questions carry **equal** marks.*

1. Describe the concept of Sustainable development with an emphasis on energy resource management.
2. Explain ISO 14001 and its benefits.
3. Describe Corporate Social responsibility with appropriate examples.
4. Explain good management practices, EMS records and information management.
5. Describe WTO and its implication on trade.
6. Write notes on **any two** of the following :
 - a) Environmental Audit
 - b) Demings PDCA cycle
 - c) EEE bottom line.

B/I/11/120



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P.G.D.E.M. (Semester – III) Examination, 2011
301 : ENVIRONMENT POLLUTION (Old Course)
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

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

1. Define Air Pollution. Give an account of air pollutants and their sources. (15)

OR

2. Describe the basic units of an effluent treatment plant. Give illustrations if necessary. (15)

3. What is meant by noise pollution ? Explain its sources, effect and control measures. (15)

OR

4. Give an account of biomedical waste and its impact on human health. (15)

5. Describe in detail the management measures for preventing and controlling water pollution. (15)

6. Write notes on : (15)

a) NIMBY

b) Algal bloom

c) Disaster management.



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P.G.D.E.M. (Semester – III) Examination, 2011
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. Define Environmental Hazards. Explain terrestrial hazards and the anthropogenic causes compounding the problem.
2. Describe in detail the preventive measures with respect to industrial disasters.
3. Explain the importance of disaster management plan in an event of epidemic like Dengue.
4. Discuss the significance of Disaster planning and safety regulations.
5. Describe the role of Social organizations in case of natural calamities.
6. Write notes on **any two** of the following :
 - a) Mitigation strategy
 - b) Public liability insurance Act
 - c) Forest fire.



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P.G.D.E.M. (Semester – IV) Examination, 2011
404 : ENVIRONMENTAL PROMOTION MANAGEMENT (Old)
(2005 Pattern)

Time: 3 Hours

Max. Marks: 60

Instructions : i) Attempt **any four** questions.

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

1. Discuss the role of UNEP in promoting the environmental cause.
2. Discuss a case study illustrating “Silent Valley Project”.
3. Describe in detail Stockholm Conference and its achievements.
4. Explain NIMBY with examples.
5. Give an account of Environmental policies of USA and Japan.
6. Write notes on **any two** of the following :
 - a) Agenda-21
 - b) ENVIS
 - c) Go's in Environmental Education.



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P.G.D.E.M. (Sem. – II) Examination, 2011
202 : NATURAL RESOURCE MANAGEMENT
(Old Course) (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.

B/I/11/100



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P.G.D.E.M. (Sem. III) Examination, 2011
303 : ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT
(Old Course) (2005 Pattern)

Time : 3 Hours

Max. Marks : 70

N.B. : 1) Attempt **any 3** questions from Q. No. 1 to 5 and Q. No. 6 is compulsory.
2) Figures to the **right** indicate **full** marks.
3) Attempt total **4** questions.

1. Explain concept of WTO with reference to commodity market of Agricultural Sector. **20**
2. Explain concept of sustainable development from Stockholm to Rio to Johannesburg. **20**
3. Give an account of the qualities of an environmental Auditor with reference to statutory Environmental Audit. **20**
4. Explain the salient features of ISO 14001. **20**
5. Explain concept, scope and objectives of EIA in developing countries. **20**
6. Write short notes (**any two**) : **10**
 - a) Public consultation programmes
 - b) Importance of Agenda 21 for developing countries
 - c) UNEP
 - d) Environmental Audit.



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P.G.D.E.M. (Sem. – IV) Examination, 2011
402 : ENVIRONMENTAL POLICY AND LEGISLATION
(Old Course) (2005 Pattern)

Time : 3 Hours

Max. Marks : 60

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

1. Explain how constitution of India ensures environmental protection.
2. Explain with example how provisions of Air act are useful in environment management.
3. Explain environment protection rules of 1993 with respect to environmental standard.
4. Discuss the Bhopal gas leak case and its importance in environmental management.
5. Describe the hazardous waste rules of 1989 and its amendments of 2003.
6. Write notes on **any two** of the following :
 - A) Motor Vehicle Act
 - B) Importance of environmental legislation
 - C) Responsibilities of Central Pollution Control Board.

B/I/11/120



[3983] – 203

P.G.D.E.M. (Semester – II) Examination, 2011
203 : ENVIRONMENT 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. Define Air pollution. Give an account of various sources of air pollution. **20**
2. Describe Bio-magnification and Algal bloom as important phenomenon of water pollution. **20**
3. Give an account of prevention and control measures of Noise Pollution. **20**
4. Enlist the hazards in Work Place and their effect on human health. **20**
5. Describe Biological hazards with appropriate examples. **20**
6. Write notes on **any two** of the following : **10**
 - a) OHSAS-18000
 - b) Disaster planning
 - c) Occupational hazards.

B/I/11/125



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P.G.D.E.M. (Semester – IV) Examination, 2011
401 : OCCUPATIONAL HEALTH, SAFETY AND
ENVIRONMENTAL HAZARDS (Old)
(2005 Pattern)

Time : 3 Hours

Max. Marks : 60

Instructions : i) Attempt ***any four*** questions.

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

1. Describe with suitable examples environmental hazards associated with urbanization.
2. Explain how housing influence ones health with suitable examples.
3. Describe the causes and control measures of Dengue.
4. Discuss the concept of occupational health hazards. Add a note on safety measures.
5. Describe industrial accidents and their means of prevention.
6. Write notes on **any two** of the following :
 - A) Chemical hazards
 - B) Job safety analysis
 - C) Water pollution.

B/I/11/120