

ENS-307 Societal Impact and Assessment (SIA)**Ques 1 Answer any two of the following [14]**

- [A] Explain the Procedure for environmental clearance.
- [B] Discuss the methods and steps in Social Impact Assessment (SIA).
- [C] Elaborate "Environmental monitoring".
- [D] Describe the contents used for the preparation of SIA report.

Ques 2 Answer any two of the following [14]

- [A] Describe the applicability of statutory environmental statement audit.
- [B] Discuss the impacts of the Hazardous waste audit.
- [C] Explain the contents of Environmental Audit report.
- [D] Define Environmental Audit (EA) and discuss the Scope and objectives of environmental auditing.


Ques 3 Answer any two of the following [14]

- [A] Discuss noise scale and rating methods.
- [B] Describe the Supply demand scenario for energy impact.
- [C] Explain the Mitigation procedures for Air pollution effects.
- [D] Write a short note on "Water quality impact".

Ques 4 Answer any two of the following [14]

- [A] Define Socioeconomic Impact Analysis (SIA) and discuss the Basic steps in SIA.
- [B] Explain the Impacts of public services analysis and facilities on SIA.
- [C] Discuss the Biological concepts of Wild Life Impact Analysis (VWLIA).
- [D] Describe any two Case studies on sample EIA reports.

Ques 5 Answer in brief [14]

1. What is Interaction matrix?
 2. Write any two objectives of SIA.
 3. Define ISO 14000
 4. Define Voluntary audit
 5. What is Consumption Audit?
 6. Define Disposal Audit.
 7. What is Energy inventory?
 8. Write any two Effects of noise on people.
 9. Name two laws related to air pollution.
 10. Define Air quality modelling.
 11. What is Fiscal impact analysis?
 12. Write any two Impacts of economic profile of the community on SIA.
 13. Give examples of biotic assessment.
 14. Write Full form of LCA and EIS.
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B.Sc. (Sem.-VI) Examination

CC 308

Environmental Science

Environmental Engineering Mole Methods

April-2017

[Max. Marks : 70]

Time : 3 Hours]

Que 1 Answer the following (Any TWO) [14]

- (A) Describe process of paper-pulp industry and characteristics of waste
- (B) Describe dying process of Textile industry and characteristics of waste.
- (C) Explain objectives of ETP and give advantages of CETP
- (D) Discuss instrument controls and automation in ETP

Que 2 Answer the following (Any TWO) [14]

- (A) Find central tendency as Mean, Median and Mode for the following data on biodiversity of animal in select forests of India:

Diversity in Grazing animals	4	6	8	10	12
Number of Forests	3	5	4	2	1

- (B) Describe the method and objective of hypothesis testing with examples
- (C) Discuss probability and its uses as a statistical tool
- (D) Define Bar chart and Pie chart. Draw any one type using example data

Que 3 Answer the following (Any TWO) [14]

- (A) Compare computer operating systems Windows and Linux with feature, advantages.
- (B) What are computer networks? List means for network connectivity.
- (C) What is SPSS? Explain type of statistical analysis of environmental data using it
- (D) Discuss importance of client server computing and give benefits

Que 4 Answer the following (Any TWO) [14]

- (A) Write a note on Aerial photography and its interpretation
- (B) Explain sensors used in remote sensing applications
- (C) Discuss GIS components and processes
- (D) Describe environmental applications of Remote sensing technology

Que 5 Answer in brief [14]

- (1) Name constituents of waste from Dairy industry, and give its use.
- (2) Where Tannery and Leather industry has flourished in India?
- (3) Define probability. What is probability for finding Carnivorous animal, when 120 Herbivorous and 10 Carnivorous animals counted in the forest?
- (4) Explain purpose of Chi-test with example
- (5) Differentiate computer GUI and CUI
- (6) Give names of relational database software
- (7) Explain ground reflectance in remote sensing

B.Sc. (Sem.-VI) Examination

CC 309

Environmental Science

Time : 3 Hours]

April-2017

[Max. Marks : 70

Que 1 Answer the following (Any TWO) [14]

- (A) Describe importance Authority and Resources in environmental management
- (B) Explain nature of personal responsibility in EMS
- (C) Discuss role of Personal communication and Training contractions in EMS
- (D) Write note on EMS and its adoption as policy

Que 2 Answer the following (Any TWO) [14]

- (A) Discuss need for Regulatory and Legislative policy in environmental impact
- (B) Write a note on Manual and Documentation of EMS
- (C) Explain environmental impact register for various requirements
- (D) Environmental Management Records in detail

Que 3 Answer the following (Any TWO) [14]

- (A) Discuss the functions of the Central and State boards for prevention and control of water pollution under the relevant act of 1974
- (B) Discuss characteristics of Hazardous Wastes defined under the relevant act
- (C) Discuss provision banning Import, Manufacture and Sale of certain insecticides
- (D) Discuss health and legal aspects of Shri Ram Olum gas-leakage case

Que 4 Answer the following (Any TWO) [14]

- (A) Discuss applications of Forest (Conservation) Act, 1980
- (B) Describe general powers vested with the central government in Environment(Protection)Act, 1986.
- (C) List control substances and controls over its supply, purchase and handling under Ozone Depleting Substance (R&C) Act
- (D) Discuss formation and powers of National Biodiversity Authority under the Biological Diversity Act, 2002

Que 5 Answer in brief [14]

- (1) How management representative can contribute to EMS
- (2) Explain Power to give directions by boards in Water (P&C of Pollution) Act, 1974
- (3) Define F-list and K-list of Hazardous Waste Act, 1989
- (4) Name four authorities as members of Central Insecticides Board under the act
- (5) What is operational control in environmental policy?
- (6) Give examples of forestry and non-forestry uses under Forest Act, 1980
- (7) Name four marking types of plastics defined under Recycled Plastic Manufacture and Usage Rules

B.Sc. (Sem.-VI) Examination

CC 310

Environmental Science

Environmental Management and Planning

April-2017

Time : 3 Hours]

[Max. Marks : 70

- Q-1 Answer the Following (Any Two) (14)
- (A) Describe pre- and post-disaster management of Cyclone.
 - (B) Describe pre- and post-disaster management of Earthquake.
 - (C) Briefly explain strategy for disaster mitigation
 - (D) Explain risk assessment process for disaster control
- Q-2 Answer the Following (Any Two) (14)
- (A) Describe inter-linkage between economy and environment
 - (B) Explain Kuznets curve for renewable and non-renewable resources.
 - (C) Write short note on Environmental ethics.
 - (D) Explain how Tax, Incentives and Subsidies can be part of Environmental Policy.
- Q-3 Answer the Following (Any Two) (14)
- (A) Write note on Rio declaration.
 - (B) Define sustainable development and explain issues related to it.
 - (C) Describe Indicators and measurement of sustainable development.
 - (D) Explain recycling as mean for sustainable development.
- Q-4 Answer the Following (Any Two) (14)
- (A) Discuss guiding principles for land use planning and state agencies involved.
 - (B) Brief describes methods of site selection and also mentions Land evaluation.
 - (C) Define soil reclamation and summarize methods for soil reclamation.
 - (D) Explain importance of land-use planning and types of associated conflicts.
- Q- 5 Answer the following. (14)
1. What is Delhi-Mumbai corridor?
 2. Name two Mitigation strategies after cyclone.
 3. Name two cyclone types.
 4. Define: desertification.
 5. Name two disaster for which warning and alert can help
 6. Give four means for creating public awareness against preparedness for disaster
 7. Name Indian states prone to landslide problems.
 8. What is environmental cost?
 9. List devastation caused by tsunami
 10. Give the effect of famines.
 11. Write any two mitigation strategy against flood.
 12. Define epidemic with example
 13. How ISRO and Survey of India assist land-use planning?
 14. Write common symptoms of Black death disease