

## 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

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**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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