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**PGIVS-031-B-21**  
**M.Sc. IV Semester Degree Examination**  
**ENVIRONMENTAL SCIENCE**  
**Occupational Health and Environmental Impact Assessment**  
**(Scheme CBCS)**  
**Paper : HCT - 4.1**

**Time : 3 Hours**

**Maximum Marks : 80**

*Instructions to Candidates:*

Answer **all** Sections. **Section - A** is compulsory.

**SECTION - A**

Answer any **TEN** of the following.

**(10×2=20)**

1. a) Silicosis
- b) Food Poisoning.
- c) Epidemiology
- d) Public Health.
- e) Communicable diseases.
- f) Sustainable development.
- g) Checklist
- h) Green belt.
- i) EMP
- j) Occupational health.
- k) Farmer's lung.
- l) Public hearing.

**SECTION - B**

Answer any **SIX** of the Following.

**(6×5=30)**

2. What is Radiation Hazard?
3. Explain Occupational Dermatitis.

4. Write a note on concept of EIA.
5. Briefly explain the Cost benefit analysis.
6. What is Indian Factories Act?
7. Elucidate types of food poisoning.
8. Give an account on Byssinosis.
9. Explain overlays methods of EIA.

**SECTION - C**

Answer the following.

**(3×10=30)**

10. a) Discuss the scope and history of EIA.

**(OR)**

- b) Describe the biological hazards with reference to occupational health.

11. a) Explain the indicators of the human health.

**(OR)**

- b) Describe the present status of communicable diseases in India.

12. a) Describe the nexus between development and Environment.

**(OR)**

- b) Discuss the importance of green belts in industries.
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**PGIVS-033-B-21**  
**M.Sc. IV Semester (CBCS Scheme) Degree Examination**  
**ENVIRONMENTAL SCIENCE**  
**Remote Sensing and Geographical Information System**  
**Paper - SCT - 4.1**

**Time : 3 Hours**

**Maximum Marks : 80**

***Instructions to Candidates:***

Answer **all** sections. Section - A is compulsory.

**SECTION - A**

Answer any **Ten** questions.

**(10×2=20)**

1. a. Sensor.
- b. Lens.
- c. Imagery.
- d. Texture.
- e. Reflection.
- f. Map scale.
- g. Non spatial data.
- h. TIN.
- i. Query.
- j. Overlay.
- k. Tone.
- l. Buffering.

**SECTION - B**

Answer any **six** of the following.

**(6×5=30)**

2. Explain types of aerial cameras.
3. Write a note on ground coverage.
4. Write a note on spatial data model.
5. What is image enhancement?

6. Explain the hierarchical network.
7. Explain the role of GIS in watershed management.
8. Write a note on characteristic of RADAR signals.
9. List out applications of Remote Sensing in wildlife management.

**SECTION - C**

Answer the following.

**(3×10=30)**

10. a. Write a detailed note on principles and components of remote sensing.  

**(OR)**

b. Give a detailed account on applications of aerial photographs.
  11. a. Explain the applications of Remote Sensing in mining and quarrying.  

**(OR)**

b. Give a detailed account on spatial data analysis.
  12. a. Give an account on image classifications.  

**(OR)**

b. Explain the applications of Remote Sensing and GIS for flood mapping assessment.
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**PGIVS-034 B-21**  
**M.Sc. IV Semester (CBCS) Degree Examination**  
**ENVIRONMENTAL SCIENCE**  
**Disaster and Management**  
**Paper - SCT - 4.2**

**Time : 3 Hours**

**Maximum Marks : 80**

***Instructions to Candidates:***

Answer **all** sections. Section - A is compulsory.

**SECTION - A**

Answer any **Ten** of the following.

**(10×2=20)**

1. a. Aims of disaster management.
- b. Vulnerability.
- c. Causes of disaster.
- d. Flood.
- e. Risk analysis.
- f. Disaster preparedness.
- g. Risk evaluation.
- h. Epidemiology.
- i. Exposure modeling.
- j. Fire services.
- k. Coastal erosion.
- l. Forest fire.

**SECTION - B**

Answer any **six** of the following.

**(6×5=30)**

2. Explain the types of disaster management.
3. Write a note on landslides.
4. What are the causes of volcanoes?
5. Write a note on importance of insurance in risk management.

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**(1)**

**[Contd....**

6. Write a note on Tsunami.
7. What is the role of students in disaster management?
8. What are the post disaster measures?
9. Explain the concept of disaster risk reduction.

**SECTION - C**

Answer the following.

**(3×10=30)**

10. a. Discuss the classification of disaster management.

**(OR)**

- b. Highlight the consequences of man - made disasters.

11. a. Explain role of Remote Sensing and GIS in disaster management.

**(OR)**

- b. Explain pre and post - disaster management aspects in cyclone prone areas.

12. a. Discuss on role of police and paramilitary services in disaster management.

**(OR)**

- b. Write an essay on economic evaluation of risk.
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**PGIVS-032-B-21**  
**M.Sc. IV Semester Degree Examination**  
**ENVIRONMENTAL SCIENCE**  
**Solid and Hazardous Waste Management**  
**(CBCS Scheme)**  
**Paper - HCT - 4.2**

**Time : 3 Hours**

**Maximum Marks : 80**

***Instructions to Candidates:***

***Answer ALL Sections. Section - A is Compulsory.***

**SECTION - A**

Answer any **TEN** of the following.

**(10×2=20)**

1. a) Waste disposal.
- b) Composting.
- c) Genotoxicity.
- d) Incineration.
- e) e-waste.
- f) Xenobiotics.
- g) Bioconcentration.
- h) Acute toxicity.
- i) Vermiculture.
- j) Toxicity of Mercury.
- k) Recalcitrant.
- l) Leachate.

**SECTION - B**

Answer any **SIX** of the following.

**(6×5=30)**

2. Explain the methods of solid waste reduction.
3. Give an account on functional elements in solid waste management.
4. Explain the effects of pesticides on aquatic biota.
5. Write a note on bioremediation.

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**(1)**

**[Contd....**

6. Write a note on biomedical waste management.
7. Briefly explain house hold waste.
8. Write a note control of soil pollution.
9. What is bioaccumulation? Explain.

**SECTION - C**

Answer the following.

**(3×10=30)**

10. a) Describe 4R's concept in solid waste management.

**(OR)**

- b) Explain the e - waste management in India.

11. a) Describe hazardous waste treatment methods.

**(OR)**

- b) Give detailed account on planning and operational practices of land filling.

12. a) With a neat diagram explain the biogas production.

**(OR)**

- b) Write a note on Nuclear and Chemical disaster.
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