

**FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2022**

(CCSS)

Environmental Sciences

ESW 4C 24—NATURAL RESOURCE : CONSERVATION AND MANAGEMENT

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A (Essay Type)***Answer any two questions.**Not to exceed 500 words.*

1. Give a brief account of soil fertility and nutrient management.
2. Give a brief account of watershed management.
3. Explain the causes of ozone depletion and its mechanism.

(2 × 10 = 20 marks)

**Part B (Short Essay)***Answer any eight questions.**Not to exceed 250 words.*

4. Give an account of coral reefs and its conservation.
5. Give an account of nuclear accidents.
6. Give an account of wasteland management.
7. Explain urban forestry.
8. Give an account of carbon sequestration.
9. What is organic farming ? Explain the methods of organic farming.
10. Comment on interlinking of rivers and river basin management.
11. Give an account of Coastal Zone Management Strategies.
12. Explain agro forestry.
13. Give an account of wetland conservation.

(8 × 5 = 40 marks)

**Turn over**

**Part C (Short Answer)**

*Answer any ten questions.  
Each question carries 2 marks.*

14. Explain Consumerism.
15. Write an account on global warming.
16. Briefly explain green manuring.
17. What is meant by deforestation ?
18. Write a note on non conventional energy.
19. Explain sustainable development.
20. Briefly explain concept of watershed.
21. Give an account on rainwater harvesting.
22. What are the objectives of grassland management ?
23. Explain Humus.
24. Give an account of mineral resources.
25. Give an account on silviculture.

(10 × 2 = 20 marks)

**FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2022**

(CCSS)

Environmental Sciences

ESW 4C 19—ENVIRONMENTAL PLANNING POLICIES AND MANAGEMENT

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A***Answer any two questions.**Each question carries 10 marks.*

1. Write an essay on Environmental planning and Management.
2. Write an essay on different environmental conventions and summits.
3. Write an essay on environmental education and the role of NGOs in environmental education.

(2 × 10 = 20 marks)

**Part B***Answer any eight questions.**Each question carries 5 marks.*

4. Write a note on role of NGOs in the implementation of Environmental policies.
5. Explain information network centres.
6. Explain the co-operation of organizations for ozone layer protection.
7. Explain the agencies work with the protection of wetlands and mangroves.
8. Explain WWF, GEE AND WCN.
9. Differentiate UNEP, UNDP and UNCED.
10. Explain global environment monitoring system.
11. Explain Montreal protocol and Manila declaration.

12. Explain the Earth summit.
13. Write a note on conventions related to the protection of tropical forests.

(8 × 5 = 40 marks)

### Part C

*Answer any ten questions.*

*Each question carries 2 marks.*

14. Hague declaration.
15. Antarctica convention.
16. INFOTERA.
17. Earthwatch.
18. ISO 9001.
19. ANERT.
20. EPM.
21. Land reclamation problems in Kerala.
22. Write a note on issues related to transportation planning.
23. Explain the land use classification for urban planning.
24. What are the ecological aspects of EPM ?
25. Ecomark.

(10 × 2 = 20 marks)

## FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2021

(CCSS)

M.Sc. Environmental Science

ESW 4C 25—GREEN CHEMISTRY

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A***(Essay Type-not to exceed 500 words).**Answer any two questions.**Each question carries 10 marks.*

1. Write notes on the principles and environmental significance of green chemistry.
2. Write an essay on emerging green technologies.
3. Give a detailed account on industrialization and its impact on environment.

(2 × 10 = 20 marks)

**Part B***(Short Essay-not to exceed 250 words)**Answer any eight questions.**Each question carries 5 marks.*

4. Explain the different types of water contaminants.
5. Explain the advantages and disadvantages of solar energy.
6. Give an account of heavy metal pollution and its impacts.
7. Write short notes on green reactions.
8. Explain climate change and its impacts on environment.
9. Give an account of pesticide pollution.
10. Write short notes on water treatment techniques.
11. Explain the benefits of sustainable life styles.
12. Explain the production and problems of waste.
13. Give an account of biopolymers.

(8 × 5 = 40 marks)

**Turn over**

**Part C (Short Answer)**

*Answer any ten questions.*

*Each question carries 2 marks.*

14. Substitution reaction.
15. Green solvent.
16. Third principle of green chemistry.
17. Limitations of solar energy.
18. Explain biodegradable polymer.
19. What are bio-plastics ?
20. What do you mean by zero waste technology ?
21. What are biocatalysts ?
22. What is photochemical smog ?
23. Difference between primary and secondary pollutants.
24. Explain geothermal energy.
25. What do you mean by eutrophication ?

(10 × 2 = 20 marks)

**FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2021**

(CCSS)

M.Sc. Environmental Science

ESW 4C 21—CURRENT ENVIRONMENTAL ISSUES IN INDIA

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A***(Essay Type-not to exceed 500 words).**Answer any two questions.**Each question carries 10 marks.*

1. Explain the impact of urbanization on environment.
2. Give a detailed account of various segments of environment.
3. Define conservation. Describe in detail the conservation of forest resources.

(2 × 10 = 20 marks)

**Part B***(Short Essay-not to exceed 250 words)**Answer any eight questions.**Each question carries 5 marks.*

4. Give an account of biosphere resources.
5. Give an account of tornadoes.
6. Explain in detail about the silent valley movement.
7. Give an account of conservation of national heritage.
8. What do you mean by Endangered and Threatened species ? Illustrate with examples.
9. Write an account of global warming.
10. Give an account of impacts of climate change on agriculture.
11. Write a short note on urban heat island.
12. Give an account of Narmada Bachao Andolan.
13. Give an account of significance of wetlands.

(8 × 5 = 40 marks)

**Turn over**

**Part C (Short Answer)**

*Answer any ten questions.*

*Each question carries 2 marks.*

14. What is sustainable development ?
15. Give an account of Avalanche.
16. Briefly explain mesosphere.
17. What is ozone depletion ?
18. Explain ENSO.
19. Explain about National Parks.
20. Give an account on UNIESCO.
21. Explain deforestation.
22. Write a short note on canopy.
23. Briefly write on storms.
24. What is Kyoto Protocol ?
25. Explain IPCC.

(10 × 2 = 20 marks)