

Y-21-X

Roll No.

Total No. of Questions : 30]

[Total No. of Printed Pages : 4

XIARJKUT23

9221-X

ENVIRONMENTAL SCIENCE

Time : 3.00 Hours]

[Maximum Marks : 70

Section-A

(Objective Type/Multiple Choice Questions)

1 each

Note :- To be answered in one word or one sentence each.

1. The word environment is derived from language.
2. The percentage of Argon in dry air is %
3. Bituminous is the purest form of coal. (True/False)
4. Natural gas is chiefly comprized of
5. Who is the Pioneer of Chipko Movement ?
6. What does JFM stand for ?
7. Name two cereals crops of India.
8. The pioneer of Green Revolution in India is

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Y-21-X

Section-B

(Very Short Answer Type Questions)

2 each

Note :- To be answered in **30** words each.

9. Define Environment. What are its different types ?
10. What are Ecological Pyramids ?
11. What is Intra-specific Interaction ?
12. What is Mutualism ? Give one example.
13. Differentiate between Species and Community.
14. What are Biofuels ? Name any two.
15. How are Floods caused ?
16. How is Tuberculosis transmitted ? Name its causative organism.
17. Write a short note on occupational Diseases.
18. What is Integrated Pest Control ?

Or

What are two disadvantages of using Chemical Fertilizers ?

Section-C

(Short Answer Type Questions)

3 each

Note :- To be answered in 40 words each.

19. Discuss the relationship of Humans with Environment.
20. Elaborate on different cooperative interaction among members of same species.
21. What are the limitations of using Nuclear Energy ?
22. Why is Chipko Movement called the first forest movement in India ?
23. Write a short note on the importance of Environmental Education.
24. What are soil borne diseases ? Give two examples.
25. Animal resources can be beneficial to mankind ? Explain.
26. What are Minerals ? Give their classification.
27. Describe various techniques of achieving sustainable agriculture.

Or

Explain the main causes of dis-appearance of traditional varieties of crops.

Section-D

(Long Answer Type Questions)

5 each

Note :- To be answered in 75 to 100 words each.

28. Describe the structure and functions of an Ecosystem.

Or

What is an Ecological Succession ? What are its types and stages ?

29. Define Population. Describe the various characteristics of a population.

Or

What is Malthus theory of Population Growth ? Elaborate on its postulates and assumptions.

30. What are Biogeochemical Cycles ? Discuss Carbon Cycle.

Or

What is an Earthquake ? What are its different causes and consequences ?

V-36-A

Roll No. **Y**

Total No. of Questions : **30**

[Total No. of Printed Pages : **4**

XIAPBAJKL23

10136-A

ENVIRONMENTAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

Section-A

(Objective Type/Multiple Choice Type Questions)

1 each

1. What do you mean by Biotic Environment ?
2. What are Sciophytes ?
3. scale is used to measure the intensity of seismic waves.
(Fill in the blank)
4. By this method, the majority of carbon moves from the lithosphere to the atmosphere :
(A) Erosion (B) Deposition
(C) Weathering (D) Fossil Fuel Burning
5. To which environmental movement were Sunder Lal Bahuguna and Goura Devi associated ?

XIAPBAJKL23 – 10136-A

V-36-A

Turn Over

6. Expand 'BNHS'.
7. Algicide is used to kill or inhibit (Fill in the blank)
8. Excessive use of nitrogenous fertilizers results in the eutrophication of water bodies. (True/False)

Section-B

(Very Short Answer Type Questions)

2 each

9. Explain briefly a food web with a suitable example.
10. What are pros and cons of wind energy ?
11. What are non-renewable energy resources ? What are their limitations ?
12. What are the characteristics of Stratosphere ?
13. "Media plays an important role in developing environmental awareness among masses." Comment.
14. What is Silicosis ? What are its symptoms ?

Or

What is Botulism ? Name its causative organism.

15. What according to Malthus are the positive checks that control the population growth ?
16. What do you mean by Food Security ?

17. Write the names of any two medicinal plants found in J and K with their medicinal importance.
18. What is the location and characteristics of Evergreen Forests ?

Section-C

(Short Answer Type Questions)

3 each

19. Give a brief account of Flash Floods and Riverine Floods.
20. What are the major career opportunities related to the studies of Environmental Science ?
21. "The Earth in the beginning of its origin was a burning hot mass of gases and dust." Write down the sequence of events that turned it into a green planet with blue skies, vast oceans and lush green forests.
22. What are Negative Interactions ? Explain Amensalism with an example.
23. Briefly describe the ecological adaptations of animals in response to temperature variations.
24. Give a brief account of 'Chipko Movement'.
25. Write a short note on Fish as a Resource.
26. What is IPM ? What are its benefits ?
27. What are Biofuels ? What is their importance ? Name any two biofuels.

Or

What are the limitations of Nuclear Energy ?

Section-D

(Long Answer Type Questions)

5 each

28. What is Hydrosere ? Explain it with some suitable examples.

Or

What are Ecological Pyramids ? Name the person who proposed the concept of ecological pyramids first. What are their different types ? Explain any *one* of them with an example.

29. Define Population. What are its characteristics ? With the help of diagrams describe uniform, random and clumped populations.

Or

What is 'Demographic Transition' ? Explain its *four* stages.

30. Name any *two* Water Borne Diseases. Write the causative organism, symptoms, prevention and treatment of any *one* of them.

Or

Name any *two* Air Borne Diseases. Write the causative organism, symptoms, prevention and treatment of any *one* of them.

S-36-A

Roll No.

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[Total No. of Printed Pages : 4

XIAPBASZJD22

7736-A

ENVIRONMENTAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

Section-A

1 each

Note :- Q.Nos. 1-8 to be answered in *one word or one sentence* each :

1. Where is the ozone layer present in the atmosphere ?
2. What is the source of Penicillin ?
3. Where is Petroleum found in India ?
4. Define Health.
5. Name the blanket of air which surrounds the earth.
6. Define Scavenging.
7. Name any *three* organophosphates.
8. Name the causative agent of typhoid.

XIAPBASZJD22-7736-A

Turn Over

S-36-A

Section-B

2 each

Note :- Q. Nos. 9–18 to be answered in 30 words each :

9. Define autoecology and synecology.
10. What are ectoparasites and endoparasites ?
11. Write short notes on the following :
 - (a) Life Table
 - (b) Age-Pyramid
12. Differentiate between Primary and Secondary Waves.
13. What is the economic importance of Forests ?
14. Define Ecology. Who coined the term ecosystem ?
15. Differentiate between *r*-selection and *k*-selection.
16. Explain IUCN and IIED.
17. Give two soap substitutes provided by Forests.
18. Define Floods. What are its causes ?

Or

Explain different layers of Atmosphere.

Section-C

3 each

Note :- Q. Nos. 19–27 to be answered in **40** words each :

19. Define Adaptations. What is the need for Adaptations ?

Or

What are different means of Communication in Animals ?

20. Briefly describe the factors regulating the size of a population.

21. What is Food Chain ? How many types of food chains are there ? Name them. <https://www.jkboseonline.com>

22. Describe the components of nuclear power plant.

23. Write a note on fresh water and marine water resources.

24. What is Green Revolution ? What are its advantages ?

25. What are different types of Volcanoes ?

26. Briefly enumerate advantages and disadvantages of Hydroenergy.

27. Write a brief note on Eutrophication and Bio-concentration.

Section-D

5 each

Note :- Q. Nos. **28–30** to be answered in **60** words each :

28. Describe *two* diseases transmitted through air.

Or

Write a note on *two* soil borne diseases.

29. Write a note on Narmada Bachao Andolan.

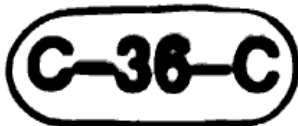
Or

Write a note on Chipko Movement.

30. Explain the various theories of origin of Earth.

Or

What is the scope and importance of Environmental Science ?



Roll No.....

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XIARKD21
5836-C
ENVIRONMENTAL SCIENCE

Time : 2.30 Hours]

[Maximum Marks : 70

Section-A

1 each

Note :- Q.Nos 1-8 to be answered in one word or one sentence each

1. Natality is
2. The innermost region of the earth is
3. is the %age composition of oxygen in the atmosphere.
4. type of dispersion is prevalent in the human beings.
5. The conversion of nitrite to nitrate is called
6. Define Silicosis.
7. Methane is a main ingredient of natural gas. (True/False)
8. Define Hepatitis.

XIARKD21 – 5836-C

Turn Over

C-36-C

Section-B

2 each

Note :- Q Nos. 9-18 to be answered in **30 words each**

9. What are manures ? Explain
10. What are different types of mineral resources ?
11. Elaborate role of "Green peace towards environment".
12. Explain the significance of World Environment Day.
13. Define disease. Mention with examples any two soil-borne diseases.
14. Explain medicinal plants as natural resource.
15. What is a significance of food security in underdeveloped nations.
16. Define Environment.
17. "Role of Government in promoting" White Revolution." Explain.
18. What do you mean by sustainable development ? Explain.

XIARKD21-5836-C

C-36-C

Section-C

3 each

Note :- Q.Nos. 19-27 to be answered in **40** words each :

19. Write a note on animal resource.
20. What are the factors for good health.
21. What is the importance of environmental studies ? Explain.
22. Give graphic representation of oxygen cycle
23. Elaborate uses and abuses of nuclear energy.
24. Write a note on Biogas and its uses.
25. What are biogeochemical cycles ? Name their types.
26. What are the objectives of EVS ?
27. Briefly describe *three* water-borne diseases.

Section-D

5 each

Note :- Q Nos. 28-30 to be answered in **75-100** words each

28. Write a detailed note on components of Environment

Or

Discuss the roles of producers, consumers and decomposers in an ecosystem

29. Describe the various characteristics of a population

Or

Differentiate between *r*-selection and *k*-selection

30. What is Adaptation ? Give an account of long-term adaptations with suitable examples.

Or

What are interspecific interactions ? Elaborate positive interactions with examples

A-35-A

Roll No.

Total No. of Questions : 30]

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XIARKDD20

2735-A

ENVIRONMENTAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

Section-A

1 each

Note :- Q.Nos. 1-8 to be answered in one word or one sentence :

1. Plants which grow in saline Environment are called
2. Lichen is association between and
3. The chemical and organic process dead organisms undergo to become coal is
4. Ozone which acts as shield for uv-radiations occurs in which atmospheric layer
5. Widal Test is done for identifying which disease
6. Expand W.H.O.

XIARKDD20-2735-A

A-35-A

Turn Over

7. The maximum population size a particular environment can support is
8. Natality is scientific term for

Section-B

2 each

Note :- Q.Nos. 9-18 to be answered in **30** words :

9. What is Bt Cotton ?
10. What are major Environmental issues ?
11. Enlist a few useful products obtained from animals.
12. Why is 'World Environment Day' celebrated on 5th June ?
13. Write a short note on Botulism.
14. What is Gene Bank ?
15. Define 'Health' as per W.H.O. guidelines.
16. Define Malnutrition.
17. Briefly describe Global Warming.
18. What do you mean by sustainable development ?

Section-C

3 each

Note :- Q.Nos. 19-27 to be answered in **40** words :

- ✓19. Elaborate uses and abuses of nuclear energy.
20. Write a note on Biogas and its uses.
21. ✓What are biogeochemical cycles ? Name their types.
22. What are the objectives of EVS ?
- ✓23. Briefly describe *three* water borne diseases.
- ✓24. "Alternatives to deforestation." Explain.
- ✓25. Write a note on biopesticides.
- ✓26. What is importance of environmental studies ?
27. Give graphic representation of oxygen cycle.

Section-D

5 each

Note :- Q.Nos. 28-30 to be answered in **75-100** words :

28. What are impacts of the population explosion on the Environment ?

Or

Elaborate various factors affecting human population size.

Turn Over

29. What is Ecological Succession ? Write a note on types of succession.

Or

What are Ecological Pyramids ? Draw sketches of pyramid of number and pyramid of biomass.

30. What is Adaptation ? Give an account of long-term adaptations with suitable examples.

Or

What are Interspecific interactions ? Elaborate positive interactions with examples.

K-35-X

Roll No.

Total No. of Questions : 30]

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XIKDRO/N19

25535-X

ENVIRONMENTAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

Section-A

1 each

To be answered in one word or one sentence :

1. Define Hydrosphere.
2. Process of movement of water-soluble inorganic nutrients into the soil is called (Fill up)
3. What is a life-table ?
4. Name the causative agent of Tetanus.
5. How does influenza spread ?
6. Name a few fresh-water fishes.

XIKDRO/N19-25535-X

Turn Over

K-35-X

7. Name the tree which yields malarial drug, quinine.
8. Name two carbonates.

Section-B

2 each

To be answered in **30** words :

9. What are biotic and abiotic components of atmosphere ?
10. What are limitations of non-renewable sources of energy ?
11. Write a short note on Biological Environment.
12. Briefly describe formation of coal and petroleum.
13. What is the significance of biogeochemical cycles ?
14. What are the objectives of Environmental Education ?
15. Expand the terms IUCN and BNHS.
16. What are communicable diseases ? Give examples.
17. What is economic importance of forests ?
18. What are the different means of communication in animals ?

Or

What is the significance of Pheromones ?

Section-C

3 each

To be answered in **40** words :

19. What is green revolution ? What are its advantages ?

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Or

Write a short note on food security.

20. What is the importance of Environmental Science ?
21. Differentiate between *r*-selection and *k*-selection.
22. Describe briefly the various characteristics of a population.
23. Describe briefly the components of nuclear Power-plant.
24. Write a brief note on Chipko Movement.
25. Write a brief note on, two soil-borne diseases.
26. What are Minerals ? Name the different types with examples.
27. What are disadvantages of Pesticides ?

Section-D

5 each

To be answered in **40** words :

28. Define an Ecological Pyramid. Write a note on *three* types of Ecological Pyramid.

Or

What is Ecological Succession ? Describe its various types.

29. Explain the various cooperative interactions among members of a species.

Or

Define adaptations. What is the need for adaptations ?

30. Define Volcano. What are the different types of Volcanoes ?

Or

Write a note on earthquakes, their characteristics, effects and mitigation measures.