

(B-31-Z)

Roll No.....

Total No. of Questions : 30]

[Total No. of Printed Pages : 7

12th ARF(SZ)JKUT2024-25
331-Z

ENVIRONMENTAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

General Instructions :

- (i) All questions are compulsory.
- (ii) Question Nos. 1-8 are Objective/Multiple Choice Questions based and carry 1 mark each.
- (iii) Question Nos. 9-18 are Very Short Answer Type Questions and carry 2 marks each.
- (iv) Question Nos. 19-27 are Short Answer Type Questions and carry 3 marks each.
- (v) Question Nos. 28-30 are Long Answer Type Questions and carry 5 marks each.
- (vi) Internal choice is provided in Question Nos. 18, 27 and all Long Answer Questions from Question Nos. 28-30.

12thARF(SZ)JKUT2024-25-331-Z

B-31-Z

Turn Over

(2)

SECTION-A

1 each

(OBJECTIVE/MULTIPLE CHOICE QUESTIONS)

1. The primary source of thermal pollution in water bodies is :
(A) Agriculture waste
(B) Plastic waste
(C) Domestic waste
(D) Cooling process in industries
2. DDT stands for
3. Recycling helps reduce the amount of waste sent to landfill.
(True/False)
4. Which of the following factor is not a threat to biodiversity ?
(A) Pollution
(B) Habitat destruction
(C) Climate change
(D) Protection of endangered species

12thARF(SZ)JKUT2024-25—331-Z

B-31-Z

5. The practice of breeding endangered species in controlled environment to increase their population is called breeding.
6. Which international agreement focuses on reducing ozone depleting substances ?
- (A) Montreal protocol
- (B) Kyoto protocol
- (C) Paris agreement
- (D) Earth summit
7. The Water (Prevention and Control of Pollution) Act, was enacted in the year
8. EIA is done for planned projects and defines alternatives.

(True/False)

SECTION-B

2 each

(VERY SHORT ANSWER TYPE QUESTIONS)

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

9. What are primary air pollutants ? Give *two* examples.
10. How does sewage affect water quality ?

11. How does overgrazing contribute to soil erosion ?
12. What are E-wastes ?
13. How does incineration help in waste management ?
14. What is the difference between Biodegradable and Non-biodegradable wastes ?
15. What are main threats to Biodiversity ?
16. What are the effects of Acid Rain ? Any *two*.
17. Write *two* sustainable development goals.
18. What are *two* salient features of Water (Prevention and Control of Pollution) Act, 1974 ?

Or

What are *two* salient features of Air (Prevention and Control of Pollution) Act, 1981 ?

SECTION-C

3 each

(SHORT ANSWER TYPE QUESTIONS)

Note :- To be answered in 50 words :

19. Write a short note on adsorption as a process to control gaseous air pollutants.
20. How do oil spills affect marine life and the environment ?
21. Differentiate between Eutrophic and Dystrophic Lakes.
22. Define Soil. Describe briefly the process of pedogenesis.
23. What are various characteristics of Hazardous Wastes ?
24. Describe briefly various categories of threatened species recognized by IUCN.
25. Why is biodiversity important for Ecosystems ?
26. What are the impacts of climate change on ecosystem ?

12thARF(SZ)JKUT2024-25-331-Z

B-31-Z

Turn

27. What are the salient features of Environment Protection Act, 1986 ?

Or

What are the key elements of EIA ? Explain.

SECTION-D

5 each.

(LONG ANSWER TYPE QUESTIONS)

Note :- To be answered in 100 words :

28. Discuss the impacts of air pollution on environment, human health and economy. <https://www.jkb oseonline.com>

Or

Define Noise Pollution. How does it affect the living organisms ?

How can it be controlled ?

29. Describe the different types of soils found in India as per ICAR classification and the regions where they are predominantly found.

Or

“Soil pollution is a silent crisis affecting India’s environment and economy.” In light of this statement, explain the various sources of soil pollution in India and suggest effective solutions to mitigate them.

30. Explain the causes and consequences of ozone layer depletion and discuss global efforts taken to address the issue.

Or

How do human activities contribute to desertification in India ? What are the remedial measures being taken to address these activities ?

Roll NO.....

(B-31-Y)

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12thARF(SZ)JKUT2024-25

331-Y

ENVIRONMENTAL SCIENCE

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12thARF(SZ)JKUT2024-25—331-Y

B-31-Y

Turn Over

SECTION-A

1 ea

(OBJECTIVE/MULTIPLE CHOICE QUESTIONS)

1. The primary source of thermal pollution in water bodies is :
(A) Agriculture waste
(B) Plastic waste
(C) Domestic waste
(D) Cooling process in industries
2. The discharge of untreated sewage into water bodies is called
3. Open dumping is an environmental friendly method of waste disposal.
(True/False)
4. Which organization provides the Red list of threatned species ?
(A) UNEP
(B) IUCN
(C) WWF
(D) UNDP

5. Wetlands of international importance are protected under the convention.
6. Which international agreement focuses on reducing greenhouse gas emissions ?
- (A) Montreal protocol
- (B) Kyoto protocol
- (C) Paris agreement
- (D) Both (B) and (C)
7. The Air (Prevention and Control of Pollution) Act, was enacted in the year
8. EIA is required only for small scale projects. (True/False)

SECTION-B

2 each

(VERY SHORT ANSWER TYPE QUESTIONS)

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

9. What is the role of Government in Controlling Air Pollution ?
10. What is Biomagnification ?

11. Write a short note on Accelerated Soil erosion.
12. What are Sanitary landfills ?
13. Give any *two* advantages of Recycling.
14. Explain the term Waste Segregation.
15. Why is cryogenic preservation done at low temperatures ?
16. What are *two* effects of acid rain on Physical Environment ?
17. Write *two* sustainable development goals.
18. What are *two* salient features of Water (Prevention and Control of Pollution) Act, 1974 ?

Or

What are *two* salient features of Air (Prevention and Control of Pollution) Act, 1981 ?

12thARF(SZ)JKUT2024-25-331-Y

B-31-Y

SECTION-C

3 each

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Note :- To be answered in 50 words :

19. Write a short note on adsorption as a process to control gaseous air pollutants.
20. How do oil spills affect marine life and the environment ?
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26. What are the impacts of climate change on ecosystem ?

27. What are the salient features of Environment Protection Act, 1986 ?

Or

What are the key elements of EIA ? Explain.

SECTION-D

5 each

(LONG ANSWER TYPE QUESTIONS)

Note :- To be answered in 100 words :

28. Discuss the impacts of air pollution on environment, human health and economy. <https://www.jkboseonline.com>

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Define Noise Pollution. How does it affect the living organisms ?
How can it be controlled ?

29. Describe the different types of soils found in India as per ICAR classification and the regions where they are predominantly found.

12thARF(SZ)JKUT2024-25-331-Y

B-31-Y

Or

“Soil pollution is a silent crisis affecting India’s environment and economy.” In light of this statement, explain the various sources of soil pollution in India and suggest effective solutions to mitigate them.

1. Explain the causes and consequences of ozone layer depletion and discuss global efforts taken to address the issue.

Or

How do human activities contribute to desertification in India ? What are the remedial measures being taken to address these activities ?

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12thARF(SZ)JKUT2024-25-331-X

B-31-X

Turn Over

SECTION-A

1 each

(OBJECTIVE/MULTIPLE CHOICE QUESTIONS)

1. The primary source of thermal pollution in water bodies is :
(A) Agriculture waste
(B) Plastic waste
(C) Domestic waste
(D) Cooling process in industries
2. refers to the measures of organic pollution in water.
3. Segregation of waste at the source improves recycling efficiency.
(True/False)
4. Which of the following is a hotspot of biodiversity in India ?
(A) Thar Desert
(B) Western Ghats
(C) Deccan Plateau
(D) None of these

5. Species found only in a particular geographic regions are called as
6. The Environmental Protection Act, was enacted in the year :
(A) 1972
(B) 1981
(C) 1986
(D) 2001
7. The report introduced the concept of sustainable development.
8. The polluter pays principle states that those who pollute should bear the cost of managing it. (True/False)

SECTION-B

2 each

(VERY SHORT ANSWER TYPE QUESTIONS)

Note :- To be answered in 30 words :

9. What are Secondary Air Pollutants ? Give *two* examples.
10. What is Eutrophication ?

11. How are Black Soils formed ?
12. What is the 3R's principle in solid waste management ?
13. What is waste to energy process ?
14. Define hazardous waste with example.
15. What is Species Richness ?
16. What are *two* effects of acid rain on Physical Environment ?
17. Write *two* sustainable development goals.
18. What are *two* salient features of Water (Prevention and Control of Pollution) Act, 1974 ?

Or

What are *two* salient features of Air (Prevention and Control of Pollution) Act, 1981 ?

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