



# KARNATAKA ICSE SCHOOLS ASSOCIATION

## ICSE STD. X Preparatory Examination 2025

Subject – Environmental Science

Duration : 2 Hours

Maximum Marks : 80

Date: 22.01.2025

### General Instructions:

*Answers to this paper must be written on the paper provided separately.*

*You will **not** be allowed to write during the first 15 minutes.*

*This time is to be spent on reading the question paper.*

*The time given at the head of this paper is the time allowed for writing the answers.*

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*Section A is compulsory. Attempt **any four** questions from Section B.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

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### Section - A (40 marks)

*Attempt all questions from this Section*

#### Question - 1

[16x1=16]

Choose the correct answers to the questions from the given options.

(Do not copy the question, Write the correct answer only.)

a. Which of the following is generated from cow dung?

- (i) Kerosene
- (ii) LPG
- (iii) Gobar Gas
- (iv) Carbon monoxide

b. On the 11<sup>th</sup> of July, \_\_\_\_\_ is celebrated annually which seeks focus attention on the urgency and importance of population issues.

- (i) World Child Labour Day
- (ii) World Population Day
- (iii) World Day of Migrants and Refugees
- (iv) World Environment Day

c. Which of the following is an effect of urbanization?

- (i) Conversion of agricultural or forest land for urban infrastructure
- (ii) Rapid increase in the national population
- (iii) Minimization of the depletion of natural resources
- (iv) Conservation of earth's vitality and diversity

d. The crossing of two plants or lines of dissimilar genotype is known as \_\_\_\_\_.

- (i) Gene Bank
- (ii) Hybridization
- (iii) Polarization
- (iv) Polyculture

**e. Assertion (A): Organic fertilizers release the nutrients over a longer period of time.**

**Reason (R): Organic fertilizers are made up of only chemicals**

**Choose the correct option from the following with respect to Assertion (A) and Reason (R).**

- (i) Assertion (A) is true and Reason (R) is the correct explanation of Assertion (A).
- (ii) Assertion (A) is false but Reason (R) is true.
- (iii) Both Assertion (A) and Reason (R) are incorrect statements.
- (iv) Assertion (A) is true but Reason (R) is an incorrect explanation of Assertion (A).

**f. Complete the analogy:**

Kaziranga National Park : One - horned rhino :: Bandipur National Park : \_\_\_\_\_

- (i) Royal Bengal Tiger
- (ii) Great Indian Bustard
- (iii) Two - horned rhino
- (iv) Asiatic Lion

**g. Pick the odd one out from the following.**

- (i) Natural Gas
- (ii) Coal
- (iii) Petrol
- (iv) Biogas

**h. Identify the given logo with respect to waste management.**

- (i) Waste segregation
- (ii) E - waste awareness
- (iii) The 3 R system
- (iv) Landfills



**i. Which of the following is NOT a developed country?**

- (i) New Zealand
- (ii) China
- (iii) Australia
- (iv) The United States of America

**j. Complete the analogy.**

The Montreal Protocol : CFCs :: The Kyoto Protocol : \_\_\_\_\_

- (i) Global Warming
- (ii) Water Pollution
- (iii) Economic Issues
- (iv) Biodiversity

**k. Pick the odd one out from the following.**

- (i) Arsenic
- (ii) Paper
- (iii) Lead
- (iv) Mercury

**1. Which of the following human activities affects the earth's resources?**

- (i) Tree Plantation
- (ii) Ex-situ conservation
- (iii) Hunting and Poaching
- (iv) Waste management

**m. Assertion (A): Crop rotation improves soil structure and fertility.**

**Reason (R): Growing the same crop repeatedly in the same place depletes the soil of various nutrients.**

- (i) Assertion (A) is true and Reason (R) is the correct explanation of Assertion (A).
- (ii) Assertion (A) is true but Reason (R) is an incorrect explanation of Assertion (A).
- (iii) Assertion (A) is false but Reason (R) is true.
- (iv) Both Assertion (A) and Reason (R) are false.

**n. The process of restoring and recreating areas of forests that may have existed long ago is called \_\_\_\_\_.**

- (i) Afforestation
- (ii) Reforestation
- (iii) Deforestation
- (iv) Unforestation

**o. Which of the following is aimed at speedy settlement of disputes relating to marriage and family affairs?**

- (i) Dowry Prohibition Act, 1961
- (ii) Indecent Representation of Women (Prohibition) Act, 1986
- (iii) Family Courts Act, 1984
- (iv) National Policy of Women Empowerment, 2001

**p. Which of the following is NOT a pollutant associated with motor vehicles?**

- (i) Ozone
- (ii) Particulate Matter
- (iii) Sulphur dioxide
- (iv) Carbon dioxide

### **Question - 2**

**Answer the following questions briefly.**

**[4x2=8]**

- a. What is a clean fuel? Mention *any one* commonly used clean fuel in vehicles.
- b. Explain *any one* factor responsible for increase in population in developing countries.
- c. What is the role of public transport in a sustainable city?
- d. What is terracing? How does it help to check soil erosion?

### **Question - 3**

**Answer the following questions briefly.**

**[4x2=8]**

- a. Mention *any two* advantages of developing community forestry.
- b. Expand the following abbreviations: (i) GMO (ii) HYV.
- c. State *any two* objectives of Wildlife Protection Act, 1972.
- d. What is gasohol? Mention *any one* use of gasohol.

**Question - 4**

Answer the following questions briefly.

[4x2=8]

- Write a note on E-waste management.
- Define the following terms: (i) Vermiculture (ii) Vermicasts
- What do you mean by debt trap? Discuss.
- Mention *any two* advantages of a four-stroke engine over a two-stroke engine.

**Section - B (40 marks)**

Attempt any four questions in this Section

**Question - 5**

- Explain *any five* ways of controlling the problem of road traffic in metropolitan cities. [5]
- Discuss the relationship between poverty and population in a country. [5]

**Question - 6**

- Why do slums arise? Explain *any four* dangers faced by the people living in the slums. [5]
- How do trees help conserve soil? Explain. [5]

**Question - 7**

- Discuss the role of women and community participation in conservation with the help of an example. [5]
- Describe *any five* strategies that make agriculture sustainable. [5]

**Question - 8**

- What do you mean by in-situ conservation? Explain with an example. [5]
- Discuss *any five* causes for the loss of biodiversity. [5]

**Question - 9**

- Discuss the need for alternative sources of energy with the help of an example. [5]
- "The Chernobyl Disaster was an important lesson for the entire human race." Substantiate this statement in detail. [5]

**Question - 10**

- Discuss *any five* action points to achieve a clean and healthy environment. [5]
- Explain *any five* factors responsible for Bhopal Gas Tragedy of 1984. [5]

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