DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2023-24
MONDAY TEST

CLASS: I X	**FULL MARKS: 40**
SUBJECT: ENVIRONMENTAL SCIENCE	**DATE: 04.12.2023**

General Instructions:
- **The paper consists of *three* printed pages.**
- **Answers should be to the point.**
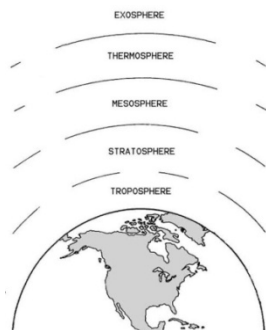- **Copy the question number carefully before answering the questions.**

SECTION A (20 Marks)

QUESTION 1
Choose the correct answer from the given options: [1×8=8]

i. **Which of the following is a cause of indoor air pollution?**
   a) **Fuel wood**
   b) **Charcoal**
   c) **Mosquito repellent**
   d) **Brick kiln**

ii. **Consider the following statements**
   Statement A: Thermal inversion is caused when the layer of air closest to the surface is cooler than air above it.
   Statement B: Thermal inversion can happen in snow bound areas.
   Choose the correct answer.
   a) **Both statements A and B are correct.**
   b) **Statement A is correct, Statement B incorrect**
   c) **Statement A is incorrect , Statement B is correct**
   d) **Both Statements A and B are incorrect**

iii. **ESP is a device used in industries to control**
   a) **Fluids**
   b) **Particulate matter**
   c) **Sewage**
   d) **Smoke**

iv. **Exposure to nitrogen dioxide can cause**
   a) **Dehydration**
   b) **Shortness of breath**
   c) **Leg cramp**
   d) **Cardiac arrest**

v.

Refer to the diagram and point out the layer where ozone is present.
 a) **Mesosphere**
 b) **Troposphere**
 c) **Stratosphere**
 d) **Thermosphere**

vi.   **Assertion (A): Common problems due to particulate matter is asthma.**
  Reason (R): Inhaled matter can settle in lungs and cause inflammation in the lungs.
  a) **A is true and R is the correct reason for A.**
  b) **A is false and R is not the correct reason for A**
  c) **A is false but R is true.**
  d) **Both A and R is true.**

vii.   **Match Column I with Column II and choose the correct option from those given below:**

Column I		Column II
i)	**Gas leak**	a) **Sea spray**
ii)	**Photochemical smog**	b) **Paints**
iii)	**Lead**	c) **Irritation of eyes**
iv)	**Primary aerosol**	d) **MIC**

  a) **i) d, ii) c, iii) b, iv) a**
  b) **i) b, ii) a, iii) d, iv) c**
  c) **i) a, ii) c, iii) b, iv) d**
  d) **i) c, ii) b, iii) a, iv) d**

viii.   **An example of secondary pollutant is**
  a) **Aerosol**
  b) **Carbon dioxide**
  c) **Water vapour**
  d) **Sulphur dioxide**

QUESTION 2   **[2×6=12]**
 a) **Vehicular emissions contain both carbon monoxide and carbon dioxide. Which one is more harmful and why?**
 b) **Respiration is reverse photosynthesis. Comment**
 c) **What is El Nino?**
 d) **Mumbai is prone to acid rain. Give reasons.**
 e) **Mention two side effects of Bhopal Gas Tragedy.**
 f) **Give two examples of ODS.**

SECTION B (20 Marks)

QUESTION 3

    a)   A hole has been identified in the ozone layer in Antarctica. It is predicted that the biotic world will suffer to a great extent if this is not checked immediately. What damage might occur and why?   **[5]**

    b)   Explain any five effects of global warming.   **[5]**

QUESTION 4

    a)   State the effects of air pollution on food security.   **[5]**

    b)   What are aerosols? What are the different types? Give examples.   **[5]**