

GREENLAWNS HIGH SCHOOL
SEMESTER I EXAMINATION
Environmental Studies
X – 22/09/25

Maximum Marks: 80

Time allowed: Two hours

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

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

Attempt all the questions from Section A. Attempt any four questions from Section B.

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

SECTION A
(Attempt all questions)

Question 1

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

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

[16]

(i) The charged solid particles suspended in the gas stick to the oppositely charged metal plates in

(a) Electrostatic precipitator	(b) Cyclone filters
(c) Gravity settling chambers	(d) Bag filters

(ii) Alternative to fuel wood which is rationed by the government

(a) Bio gas	(b) Solar cookers
(c) Pellets	(d) Kerosene

(iii) Gaseous pollutant released in industrial accident during Bhopal gas tragedy.

(a) Methyl Isocyanides	(b) Ethyl Isocyanides
(c) Methyl cyanides	(d) Potassium cyanides

(iv) A-Secondary cities are developed few kilometers away from urban centers.
R- To reduce the pressure of migration.

(a) Only A is true (b) Only B is true
(c) Both A and B are true (d) Both A and B are false

(v) _____ vapours are released from auto exhaust, paints, solvents and pesticides.

(a) POC's (b) BOC's
(c) VOC's (d) TOC's

(vi) Non-conventional clean fuel among the following is

(a) petrol (b) diesel
(c) coal (d) hydrogen

(vii) Vehicles that uses two or more distinct power sources to move are called

(a) gasoline vehicles (b) hybrid vehicles
(c) electric vehicles (d) fuel cell vehicles

(viii) Most of the high fertility countries are located in

(a) Africa (b) Asia
(c) America (d) Europe

(ix) Medium projection given by UN for population growth by 2050

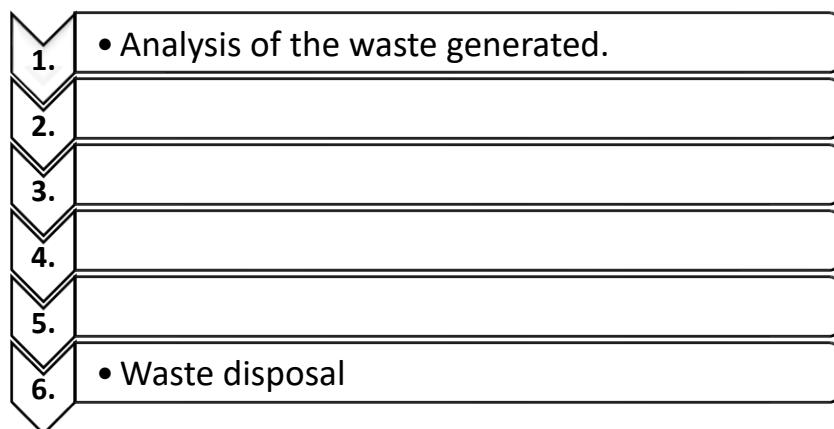
(a) 12.5 billion (b) 14.7 billion
(c) 10.5 billion (d) 7.5 billion

(x) Capacity of the biosphere to meet the needs of the present generation without hindering future generations from being able to meet their needs

(a) ecological sustainability (b) economic sustainability

(c) ecological protection (d) economic development

(xi) The steps in waste management are illustrated in the flow chart given alongside. Identify the steps from step-2 to step-5 in correct sequential order.



(a) Collection → Segregation → Transportation → Recycling

(b) Transportation → Collection → Segregation → Recycling

(c) Segregation → Recycling → Transportation → Collection

(d) Segregation → Collection → Transportation → Recycling

(xii) India's dependence on energy import is expected to exceed of the country's total energy consumption by

(a) 50% (b) 42%

(c) 53% (d) 63%

(xiii) Water bodies contaminated with sewage & run off carrying fertilizers suffer

- (a) from algal bloom
- (b) from bacterial depletion
- (c) from increase in dissolved oxygen level
- (d) from increase in biodiversity

(xiv) Incineration is burning of waste at

- (a) very high temperature in closed chambers.
- (b) moderate temperature in open areas.
- (c) moderate temperature in closed areas.
- (d) very high temperature in closed open areas.

(xv) Bioremediation is also known as

- (a) Bio-restoration
- (b) Bio-technology
- (c) Bio-magnification
- (d) Bio-toxication

(xvi) Alternate crop rows between heavy-rooted plants and loosely-rooted plants to minimize erosion is known as

- (a) basin listing
- (b) wind break
- (c) check dams
- (d) strip farming

Question 2

- (i) Give two disadvantages of CNG. [2]
- (ii) What are effects of imposing penalties and subsidies? [2]
- (iii) Define migration. What does it lead to? [2]
- (iv) Write 4 types of wastes defined by modern system of waste management. [2]

Question 3

- (i) Give two advantages of sludge. [2]
- (ii) What is meant by community forestry? [2]
- (iii) What is reforestation? How the reforestation of large area is carried out? [2]
- (iv) Write two advantages of recycling papers? [2]

Question 4

- (i) Define basin listing. Give one advantage of the basin listing. [2]
- (ii) How wrong agricultural practices lead to soil erosion? [2]
- (iii) What is population explosion? Write one effect of population explosion. [2]
- (iv) What is clean technology? [2]

SECTION B

(Attempt any **four** questions from this section)

Question 5

- (i) How acid rain affects taj Mahal? What were the steps taken by Mathura Oil refinery to reduce its emissions causing harm to Taj mahal? [5]
- (ii) Describe 5 personal initiatives which help to reduce vehicular pollution. [5]

Question 6

- (i) What does women-centered population strategies typically focus on? [5]
- (ii) Described five favorable construction activities for environmental improvement [5]

Question 7

- (i) Explain vermicomposting as a biological method of waste management. [5]
- (ii) Enumerate five reasons for the failure of community forestry in India. [5]

Question 8

- (i) Discuss five ways to control overgrazing in forests land. [5]
- (ii) What is dry framing? Give any four advantages. [5]

Question 9

- (i) Write a note on open dumping as a method of waste treatment. [5]
- (ii) Describe the problems faced by Sukhomarji Village? [5]

Question 10

- (i) What is catalytic converter? Give its 2 advantages and 2 disadvantages. [5]
- (ii) What is zoning strategy? [5]