

GREENLAWNS HIGH SCHOOL
SEMESTER I EXAMINATION
Environmental Studies
X – 3/10/23

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 best method to dispose of biodegradable waste is:
- (a) incineration
 - (b) composting
 - (c) recycling
 - (d) open dumping
- (ii) The founder director of Tarun Bharat Sangh is :
- (a) M.C. Mehta
 - (b) Anna Hazare
 - (c) Dr. Rajendra Singh
 - (d) Megha Patkar

- (iii) Gas which was responsible for Bhopal Disaster
- (a) Methane
 - (b) Methyl Isocyanides
 - (c) Ethyl Iso cyanides
 - (d) Potassium cyanides
- (iv) Assertion - Hydrogen as a fuel does not produce Carbon dioxide
Reason - It does not contribute to greenhouse effect
- (a) Only assertion is true
 - (b) Only reason is true
 - (c) Both assertion and reason are true
 - (d) Both assertion and reason are false
- (v) Medium projection of population growth by 2050 as per UN is:
- (a) 10 billion
 - (b) 10.5 billion
 - (c) 7.5 billion
 - (d) 12.5 billion
- (vi) Algal bloom leads to
- (a) sanitization
 - (b) soil degradation
 - (c) ozone depletion
 - (d) eutrophication
- (vii) Byproduct of burning pulverized coal in thermal power plants.
- (a) heavy ash
 - (b) Fly ash
 - (c) black ash
 - (d) black smoke

- (viii) Soil conservation by covering soil with leaves, stalk, husk etc.
- (a) crop rotation
 - (b) dry farming
 - (c) mulching
 - (d) controlled grazing
- (ix) In community forestry local people are
- (a) workers
 - (b) stakeholders
 - (c) employer
 - (d) customer
- (x) Village in Ahmednagar which is considered a model of environment conservation.
- (a) Ambilwadi
 - (b) Agadgaon
 - (c) Moray gaon
 - (d) Ralegaon Siddihi
- (xi) Technique which involve use of naturally existing microorganisms to speed up the breaking down of biological substance and degradation of various materials.
- (a) Bioremediation
 - (b) Bio incineration
 - (c) Lechate control
 - (d) Bio siltation
- (xii) Developments of houses and shopping centers on undeveloped areas near a city or along the highways is known as
- (a) Urban sprawl
 - (b) Slum development
 - (c) eco city
 - (d) rural – urban linkage

- (xiii) Demographic transition is used to represent the transition from
- (a) high birth rate to high death rate
 - (b) low birth rate to low death rate
 - (c) high death rate to low birth rate
 - (d) high birth rate to low birth rate
- (xiv) Chemical content in petrol for smooth functioning of engine which has harmful effect on human health and environment.
- (a) Sulphur
 - (b) Lead
 - (c) methane
 - (d) argon

(xv)



Figure alongside depicts lower atmospheric air pollutant found in urban and high industrial areas known as

- (a) Fog
 - (b) photochemical smog
 - (c) haze
 - (d) drizzle
- (xvi) Identify the correct order of waste hierarchy
- (a) Reuse → Recycle → Recover → Treatment → Disposal
 - (b) Recycle → Recover → Reuse → Treatment → Disposal
 - (c) Recycle → Reuse → Recover → Treatment → Disposal
 - (d) Recycle → Reuse → Recover → Treatment → Disposal

Question 2

- (i) List 2 effects of Asia Brown Haze. [2]
- (ii) How private enterprise help in improvement of cities? [2]
- (iii) Write the full form of :- NMDFC , NSFDC , DWCRA , UNEP. [2]
- (iv) Write 2 factors affecting control of particulate pollutants. [2]

Question 3

- (i) Give two energy efficient devices? [2]
- (ii) List 2 technological options for reducing vehicular pollution? [2]
- (iii) Write two reasons, how the population growth would lead to climate change? [2]
- (iv) What is urbanization? [2]

Question 4

- (i) Why four stroke engines are regarded as ecofriendly engines? [2]
- (ii) Write 2 steps taken to counter migration. [2]
- (iii) Define waste as per Basel convention? [2]
- (iv) Give 2 advantages of contour ploughing? [2]

SECTION B

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

Question 5

- (i) Discuss five alternatives to fuel wood? [5]
- (ii) Write five effects of environmental pollution by vehicular emission. [5]

Question 6

- (i) Explain the effect of poverty. [5]
- (ii) Explain how secondary cities can be developed. [5]

Question 7

- (i) Discuss human activities that causes soil erosion. [5]
- (ii) What are alternatives to materials? Prove that they are both economical and environmental friendly. [5]

Question 8

- (i) Explain traffic management as a measure to control air pollution? [5]
- (ii) Discuss the role of gravity settling chambers as a technological measure to control air pollution. Give its advantages and disadvantages [5]

Question 9

- (i) Discuss the Human development policies of the government of India. [5]
- (ii) Give the brief background of TBS and write steps taken by TBS for soil conservation. [5]

Question 10

- (i) How incineration works as a method of treatment of waste? What are its advantages and disadvantages [5]
- (ii) Define land reforms. Write about its four phases in India. [5]