

Greenlawns High School
Terminal Examination 2024-25
Subject: Environmental Science

Std: X

Date: 23/09/2024

Time: 2 Hours

Marks: 80

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers.
- Section A is compulsory. Attempt any four questions from Section B.

SECTION A

(Attempt all questions from this Section.)

Q.1 Choose the correct answers to the questions from the given options:(16)
(Write the correct option and the corresponding answer)

- 1) When is Van Mahotsva celebrated in India?
a) 1 January to 7 January b) 1 June to 7 June
c) 1 July to 7 July d) 1 August to 7 August

- 2) Which of the following statement is incorrect for incineration?
a) It is burning of waste at very high temperature.
b) It is suitable for bio-degradable waste.
c) It produces large amount of fly-ash.
d) It requires less time for disposal.

- 3) Which of the following silviculture system is suitable for shade tolerant species regeneration?
a) Clear cutting b) Seed Tree c) Shelter wood d) Single tree selection

- 4) Raj decided to repair his old washing machine instead of buying a new one. So what is he done?
a) Reduced the waste b) Reused the waste
c) Recycled the waste d) Disposed the waste.

- 5) _____ is used to control the dust generated at cement plant.
a) Gravity settling chamber b) Bag filter c) Cyclone filter d) Wet scrubber

6) Which of the following model of community participation was led by the person shown in the picture?



- a) Tarun Bharat Sangh
c) Sukhomajri
b) Ralegaon Siddhi
d) Chipko movement

7) In which of the following methods alternate rows of heavy rooted plants and loosely rooted plants are made to avoid soil erosion?

- a) Terrace Farming b) Contour farming c) Tree cropping d) Strip Farming.

8) _____ is spreading of urban developments like houses and shopping centres on undeveloped areas near a city.

- a) Slum b) Urban Sprawl c) Eco-city d) Metro-city.

9) Which of the following is the factor responsible for population explosion?

- a) Decreased Life expectancy b) Increased infant mortality
c) Increased birth rate d) Decreased food production

10) The abolition of intermediaries was part of _____ of land policy in India.

- a) First Phase b) Second Phase c) Third Phase d) Fourth Phase

11) Assertion (A): Sanitary landfills are preferred over open dumping.

Reason(R): After decomposition and compaction of waste, the land of sanitary landfills can be used for human settlements.

- a) A is True, R is False. b) A is false, R is True.
c) Both A and R are True. d) Both A and R are False.

12) Which of the following ways can be followed to achieve ecological sustainability?

- a) Using solar energy instead of fossil fuels.
b) Increase green cover.
c) Use of public transport.
d) Increase consumption of resources.

13) Which of the following air pollutant can affect human central nervous system and lead to permanent brain damage?

- a) Carbon dioxide b) Carbon monoxide c) Lead d) Methane

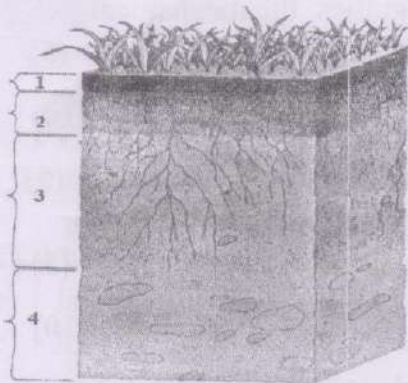
14) Which of the following statement is false for four-stroke engine?

- a) It is an external combustion engine. b) It is fuel efficient engine.
c) It does not require mixing of lubrication oil. d) It causes less pollution.

15) Which of the following clean fuels is used to run public transport vehicles in Mumbai?

- a) Hydrogen b) CNG c) Ethanol d) Biodiesel

16) The soil profile is shown in the following picture, which layer has maximum iron and clay?



- a) 1 b) 2 c) 3 d) 4

Question 2

- 1) What is dry farming? Write one advantage of it. (2)
2) Write any two control measures for overgrazing. (2)
3) What is bioremediation? How plants are used in bioremediation? (2)
4) Write any two measures that can be taken to increase private enterprise participation in city improvement. (2)

Question 3

- 1) How zoning strategy helps in controlling air pollution? (2)
2) What is energy plantation? Which are the two forms of energy forestry? (2)
3) Write any two examples of secondary cities developed near Mumbai. What is the main purpose of developing secondary cities? (2)
4) How is petrochemical smog formed? Where is it found? (2)

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Question 4 (8)

- 1) What are foliage crop? Write any two examples of foliage crops. (2)
- 2) Why is composting considered as eco-friendly method of waste disposal? (2)
- 3) Explain – Use of Bio gas and Bagasse briquettes is preferred over fuel wood. (2)
- 4) How hydrogen is used in car as a fuel? (2)

SECTION B

(Attempt any 4 questions from this Section.)

Question 5 (10)

- 1) Which are the alternatives to timber used in building industry and to fuel wood? (Write any 3 alternatives for each) (5)
- 2) What is soil management? Explain bunds and gullies, the mechanical practices used for soil management. (5)

Question 6 (10)

- 1) What is an eco-city? How an eco-city can be planned? (5)
- 2) Explain the three categories of paper that can be used as feed stocks for making recycled paper. Write any two advantages of recycling paper. (5)

Question 7 (10)

- 1) How is electrostatic precipitator used to control air pollution? Write two advantages and disadvantages of electrostatic precipitator. (5)
- 2) Explain six human activities which causes soil erosion. (5)

Question 8 (10)

- 1) Explain: Population growth leads to climate change. (5)
- 2) What is catalytic converter? Write any two advantages and disadvantages of catalytic converter. (5)

Question 9 (10)

- 1) Write any six ways to fix the problems related to water supply management to maintain constant supply of water. (5)
- 2) What is the main objective of waste management? Explain the steps of waste management. (5)

Question 10 (10)

- 1) Explain the three main processes involved in waste water treatment. (5)
- 2) What is population explosion? Explain four population control strategies. (5)